CONSTRUCTION NEWS

PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
June 26	Brighton, N. Y.	June 15
June 26	Long Branch, Ont.	June 22
June 26	Wewoka, Okla.	June 22
June 27	Storm Lake, Ia.	June 15
June 27	River Rouge, Mich.	June 22
June 27	Buffalo, N. Y.	June 22
June 27	Kincardine, Ont.	June 22
June 28	Bordentown, N. J.	June 8
June 29	Hazard, Ky. Adv. June 15 and 22.	June 15
June 29	Peru, N. Y. Adv. June 15 and 22.	June 22
June 30	Maywood, Ill. Adv. June 22.	June 22
June 30	Two Rivers, Wis. Adv. June 15 and 22.	June 15
June 30	Morrisville, Pa. Adv. June 15 and 22.	June 15
June 30	Cleveland, O.	June 22
June 30	Morgantown, N. C.	June 22
June 30	New York, N. Y.	June 22
June 30	Long Island City, N. Y.	June 22
June 30	Brooklyn, N. Y.	June 22
July 3	Waubay, S. D.	June 15
July 3	Euclid, O.	June 22
July 3	Charleston, S. C. Adv. June 15 and 22.	June 22
July 5	Reading, Pa. Adv. June 22.	June 22
July 6	Memphis, Tenn. Adv. June 22.	June 22
July 6	Memphis, Tenn. Adv. June 15 and 22.	June 15
July 10	Harrold, S. D.	June 22
July 11	New York, N. Y. Adv. June 22.	June 22
July 11	Benton, Wis.	June 22
July 11	Buffalo, N. Y. Adv. June 22.	June 22

SEWERS

June 26	Portland, Me.	June 1
June 26	Verona, Pa.	June 8
June 26	Morris Plains, N. J.	June 15
June 26	Clairton, Pa.	June 22
June 26	Maple Heights, O.	June 22
June 27	Dayton, O.	June 22
June 27	Warren, Ark.	June 8
June 27	Louisville, Ky.	June 8
June 28	Glens Falls, N. Y. Adv. June 1 to 22.	June 8
June 29	Woodbury Heights, N. J. Adv. June 22.	June 22
July 1	Hamburg, N. Y.	May 18
July 1	Lima, O.	June 8
July 3	Charleston, S. C. Adv. June 22.	June 22
July 3	Euclid, O.	June 22
July 6	Winter Haven, Fla. Adv. June 8 to 22.	June 8
July 7	Menominee, Mich.	June 22
July 7	Graceville, Minn.	June 22
July 10	Eustis, Fla. Adv. June 15 and 22.	June 15
July 13	Thiells, N. Y. Adv. June 22.	June 22
July 18	Lake Forest, Ill.	June 15
July 19	Camden, N. J.	June 22

WASTE DISPOSAL

July 25	Buffalo, N. Y. Adv. June 22.	June 22

BRIDGES

June 26	Orangeville, Ont.	June 22
June 27	Annapolis, Md. Adv. June 15 and 22.	June 15
June 27	Century, Fla.	June 15
June 28	North Carolina	June 8
June 28	Barnwell, S. C.	June 15
June 28	North Carolina	June 15
June 28	Long Island City, N. Y.	June 22
June 30	Niagara Falls, Ont.	June 22
July 1	Cleveland, O.	June 15
July 5	Sturgis, S. D.	May 18
July 5	West Palm Beach, Fla. Adv. June 22.	June 22
July 6	Riverview, Md. Adv. June 15 and 22.	June 15
July 6	Salinas, Cal.	June 22
July 8	Salem, N. J. Adv. June 22.	June 22
July 11	Williamsport, Pa.	June 15
July 11	Central Ferry (Penawawa P. O.), Wash. Adv. June 15 and 22.	June 15
July 14	Tennessee	June 22
Oct. 31	Sydney, Australia	Jan. 12

Bids Close		See Eng. News-Record

DAMS

June 27	Electra, Tex.	June 22

RAILWAYS

June 26	New York	June 22

EXCAVATION AND DREDGING

June 27	Yarmouth, N. S.	June 22
June 29	Pocahontas, Ia.	June 22
July 7	Waseca, Minn.	June 22
July 8	New Bern, N. C.	June 8

STREETS AND ROADS

June 26	Riverside, Cal.	June 1
June 26	Santa Cruz, Cal.	June 8
June 26	California	June 8
June 26	Sioux Falls, S. D.	June 15
June 26	Richmond, Tex.	June 15
June 26	Wash., D. C.	June 15
June 26	Fredonia, N. Y.	June 15
June 26	Massena, N. Y.	June 15
June 26	Wash., D. C.	June 15
June 26	West Allis, Wis.	June 22
June 26	Clairton, Pa.	June 22
June 26	Garfield Heights (Cleveland P. O.), O.	June 22
June 26	Maple Heights, O.	June 22
June 26	Fort Frances, Ont.	June 22
June 26	Etna, Pa.	June 22
June 26	Oakville, Ont.	June 22
June 27	Racine, Wis.	June 22
June 27	Wisconsin	June 22
June 27	Crestline, O.	June 22
June 27	New Haven, Conn.	June 22
June 27	Pennsylvania Adv. June 8 to 22.	June 8
June 27	Quebec	June 15
June 27	Long Branch, N. J.	June 15
June 27	Iola, Kan.	June 15
June 27	Columbus, O.	June 22
June 27	Audubon, N. J. Adv. June 22.	June 22
June 27	Vermont	June 22
June 27	Virginia	June 22
June 27	Richmond, Va. Adv. June 22.	June 22
June 27	Michigan	June 22
June 27	Chester, Pa.	June 22
June 27	Chicago, Ill.	June 22
June 28	Pennsylvania Adv. June 8 to 22.	June 8
June 28	North Carolina Adv. June 15 and 22.	June 8
June 28	New Jersey	June 8
June 28	North Carolina	June 15
June 28	Freehold, N. J. Adv. June 8 to 22.	June 15
June 28	Waco, Tex.	June 22
June 28	Kenosha, Wis.	June 22
June 28	Montreal, Que.	June 22
June 28	Sarnia, Ont.	June 22
June 28	Seattle, Wash.	June 22
June 29	Michigan	June 15
June 29	Mahnomen, Minn.	June 15
June 29	St. Clairsville, O.	June 22
June 29	Michigan	June 22
June 29	Georgetown, Tex.	June 22
June 30	San Angelo, Tex.	June 22
June 30	Reidsville, N. C.	June 22
June 30	Michigan	June 8
June 30	Indianapolis, Ind.	June 15
June 30	New York Adv. June 15 and 22.	June 15
June 30	Indiana, Pa. Adv. June 15 and 22.	June 15
June 30	Michigan	June 22
July 1	Elkhorn, Wis.	June 22
July 1	Charleston, W. Va.	June 15
July 3	Graham, N. C.	June 22
July 3	Euclid, O.	June 22
July 3	White Plains, N. Y. Adv. June 22.	June 22
July 3	Windber, Pa.	June 22
July 3	California	June 22
July 3	Colfax, Wash.	June 22
July 5	Ridgefield Park, N. J. Adv. June 15 and 22.	June 15
July 5	Maryland Adv. June 22.	June 22
July 5	Hutchinson, Kan.	June 22
July 5	Michigan	June 22
July 6	Fairmont, W. Va.	June 22
July 6	Winter Haven, Fla Adv. June 8 to 22.	June 8
July 6	San Luis Obispo, Cal.	June 22
July 6	Yuba City, Cal.	June 22
July 6	Michigan	June 22
July 6	Washington, Pa.	June 22
July 7	Troy, Kan.	June 15
July 7	Doniphan, Kan.	June 22
July 7	Tuckerton, N. J. Adv. June 15 and 22.	June 22
July 7	Barnegat, N. J. Adv. June 15 and 22.	June 22
July 7	Menominee, Mich.	June 22
July 7	Ontario	June 22
July 7	Michigan	June 22
July 8	Quebec	June 22
July 10	Eustis, Fla. Adv. June 15 and 22.	June 15
July 10	Los Angeles, Cal.	June 22
July 10	Duluth, Minn.	June 22
July 10	Faribault, Minn.	June 22
July 11	West Virginia Adv. June 22.	June 22
July 11	Michigan	June 22
July 12	Michigan	June 22
July 12	Gonzales, Tex	June 22
July 14	Belvidere, N. J. Adv. June 22.	June 22
July 18	Quincy, Fla.	June 22

INDUSTRIAL WORK

June 24	Columbus, O.	June 22
June 25	Ada, O.	June 22
June 26	Brooklyn, N. Y.	June 22
June 28	Central Islip, N. Y. Adv. June 15 and 22.	June 15
June 28	Hoboken, N. J.	June 22
July 5	Cleveland, O.	June 22
July 15	Winston-Salem, N. C.	June 22
July 18	Quincy, Fla.	June 22

BUILDINGS

June 26	Verona, Pa.	June 8
June 26	Stillwater, Minn.	June 15
June 26	Toledo, O.	June 15
June 26	Utica, N. Y.	June 22
June 26	Amherst, Mass.	June 22
June 26	Long Island City, N. Y.	June 22
June 26	Corona, N. Y.	June 22
June 26	Albany, N. Y.	June 22
June 27	Worland, Wyo.	June 8
June 28	Norwich, N. Y.	June 8
June 28	Bordentown, N. J.	June 15
June 29	Pulaski, Wis.	June 22
June 29	San Antonio, Tex. Adv. June 22.	June 22
June 29	Phila., Pa.	June 22
June 30	Dunlo, Pa.	June 15
June 30	Sioux Falls, S. D.	June 15
June 30	San Bernardino, Cal.	June 15
June 30	Reedley, Cal.	June 15
June 30	St. John, N. B.	June 22
July 1	Lorain, O.	June 22
July 1	Perry, N. Y.	May 4
July 1	Ambler, Pa.	June 22
July 3	Cleveland, O.	June 15
July 5	Charlotte, N. C.	June 22
July 5	Haverstraw, N. Y. Adv. June 22.	June 22
July 5	New York, N. Y.	June 22
July 5	Lansing, Mich.	June 22
July 6	Maquoketa, Ia.	June 15
July 6	Grafton, N. D.	June 15
July 6	International Falls, Minn.	June 22
July 7	Flagstaff, Ariz.	June 22
July 7	Grand Rapids, Minn.	June 22
July 10	Albany, N. Y.	June 8
July 10	Ft. Madison, Ia.	June 22
July 10	McKeesport, Pa.	June 22
July 11	Montclair, N. J.	June 22
July 12	Colorado Springs, Col.	June 22
July 17	Urbana, Ill. Adv. June 15 and 22.	June 15
July 17	Rock Rapids, Ia.	June 22
July 30	Westwood, N. J.	June 22

FEDERAL GOVERNMENT WORK

June 26	Steel Hulls — Nashville, Tenn.	May 25
June 26	Post Office—Vinton, Ia.	June 8
June 26	Quarters—Ft. Benning, Ga.	June 15
June 26	Stables, etc.—Madison Barracks, N. Y. Adv. June 22.	June 22
June 27	School—Wash., D. C. Adv. June 1 to 22.	June 1
June 27	Hospital—St. Louis, Mo.	May 25
June 27	Stables—Carlisle, Pa. Adv. June 22.	June 22
June 28	Remodeling — Edgewood, Md. Adv. June 22.	June 22
June 28	Drainage—Malta, Mont.	May 18
June 28	Engines—Detroit, Mich. Adv. June 1 to 22.	June 8
June 28	Dwellings, etc. — White Fish Point, Mich. Adv. June 15 and 22.	June 15
June 28	Guard House — Wash., D. C. Adv. June 22.	June 22
June 29	Hangars, etc. — Boston, Mass. Adv. June 15 and 22.	June 15
June 30	Aerodrome—Chicago, Ill. Adv. June 22.	June 22
June 30	Hangars, etc.—Leavenworth, Kan. Adv. June 15 and 22.	June 15

Bids Close		See Eng. News-Record
July	1 Rubber Hose — Memphis, Tenn. ..... June 8 Adv. June 8 to 22.	
July	3 Hangars, etc.—Pittsburgh, Pa. ..... June 15 Adv. June 15 and 22.	
July	3 Parcel Post Room, etc. — Crookston, Minn. ..... June 8	
July	5 Grilles—Augusta, Ga. .... June 22 Adv. June 22.	
July	7 Dredging—Baltimore, Md. . June 8	
July	10 Post Office, etc.—Aplachicola, Fla. ..... June 15 Adv. June 15 and 22.	
July	10 Boiler House, etc.—Rantoul, Ill. ..... June 22 Adv. June 22.	
July	11 Post Office—Gilmer, Tex. . . June 15 Adv. June 15 and 22.	
July	17 Metal Work — Louisville, Ky. ..... June 22 Adv. June 22.	
July	17 Rubble Mound — Ashtabula Harbor, O. ..... June 22 Adv. June 22.	
July	17 Conduit—Wash., D. C. . . . . June 22 Adv. June 22.	
July	17 Steel Ladder, etc. — New Orleans, La. ..... June 22 Adv. June 22.	
July	18 Piling—Louisville, Ky. . . . June 22 Adv. June 22.	
July	19 Steel Hull — Pittsburgh, Pa. ..... June 22 Adv. June 22.	
Aug.	2 Dredges—Wash., D. C. . . . . June 15	
Aug.	2 Ordnance Buildings, etc.— Pearl Harbor, H. T. . . . . June 15 Adv. June 15 and 22.	

MISCELLANEOUS

June	27 Underground Fire Alarm System—Brooklyn, N. Y. . . . . June 8	
June	27 Granite Blocks — Montreal, Que. ..... June 22	
June	27 Elevated Railway Equipment, etc.—Phila., Pa. ..... June 22	
June	28 Breakwater—Port Burwell, Ont. ..... June 15	
June	29 Dock, etc.—Troy, N. Y. . . . June 1	
June	29 Miscellaneous Construction, etc.—New York, N. Y. . . . . June 22	
June	30 Ramp, etc. — Brooklyn, N. Y. ..... June 22	
July	17 Heating, Ventilating, etc. — Urbana, Ill. ..... June 22 Adv. June 22.	
July	18 Pier Sheds, etc.—Portland, Me. ..... June 22 Adv. June 22.	
July	19 Turbine and Accessories — New Orleans, La. ..... May 18 Adv. May 18 to June 22.	

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

N. Y., Johnson City—Water Bd. plans to lay main. $25,000-$30,000. C. F. Johnson, chn.

Pa., Phila.—Soon takes bids addition to filtration plant, laying pipe, etc. $200,000. C. E. Davis, City Hall, engr.

O., Columbus—Franklin Co. plans to lay 18,740 ft. 6-12 in. mains, Clinton 1 Highland Park Contr. $37,000. E. G. Bradbury, 124 East Long St., engr.

Neb., Thedford—Plans pumping station and water works system. $20,000 bonds sold. J. Figard, secy. village board.

Mont., Conrad—Making plans waterworks. $15,000. C. W. Swearingen, 925 3rd Ave. N., Great Falls, engr.

Col., Grand Junction—Preparing specifications and estimates for waterworks improvements, incl. new reservoir. $150,000. G. Garrett, city mgr.

Minn., Lake City—Plans watermains in about 85 blocks, 32,000 lin.ft. 6 in. and 750 lin.ft. 4 in. c.i. pipe, etc. $50,000. L. P. Wolff, 1000 Guardian Life Bldg., St. Paul, engr.

Minn., Montgomery—Plans water main extensions and appurtenances. $20,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs.

Ont., Glencoe—Wabash Ry. Co., Exch. Bldg., St. Louis, Mo., plans water filling station. 3 mi. pipe line and electric pumping outfit, here. O. W. Carrick, c/o Wabash Ry. Co., Decatur, Ill., engr.

Que., Huli—Voted $59,000 bonds to extend waterworks and sewer systems. T. Lanctot, city engr.

Ont., Thessalon—Plans to install motor driven and gasoline driven pumps, 3 stage, centrifugal, in waterworks pump house. J. O. Coulter, city clk.

BIDS DESIRED

N. Y., Brooklyn—June 30, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Ave. T, Dahill Rd., Atkins, Flatlands, Lorraine, Sheffield and 20th Aves., Hemlock, North Henry, Richardson, Bay 16th, East 8th, East 14th, East 18th, East 22nd, West 3rd, West 6th, West 29th, West 37th, 51st, 63rd, 68th and 77th Sts., here.

N. Y., Buffalo—July 11, by Commissioner Pub. Wks., Municipal Bldg., coagulating basin, clear water reservoir, filter boxes, substructure of pumping sta., etc., in connection with filter plant. G. C. Andrews, Porter Ave., engr.; adv. this issue.

N. Y., Buffalo—June 27, by Dept. Pub. Wks., Municipal Bldg., furnishing, installing and connecting all steam exhaust, water suction and discharge piping from 8-30 in. with valves, etc., for 3 high pressure turbine pumping units in Col. F. G. Ward Pumping Sta. A. W. Kreinheder, comr.

N. Y., Long Island City—June 30, by N. J Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Arcadia, Graham, Van Alst and Vandeventer Aves., Orchard, South Jane, and 14th Sts., also Boulevard, 1st Ward; 46th Rd., Mickle Pl., Higgins, 9th and 47th Aves., 18th, 19th, 21st, 164th, 170th and 206th Sts., 3rd Ward, here.

N. Y., New York—July 11, by Bd. Water Supply, Municipal Bldg., Park Row, Centre and Chambers Sts., furnishing and delivering sluice-gates, hydraulic cylinders, etc., for intake shaft of Shandaken tunnel, f.o.b. at Grand Gorge Sta. on Ulster and Delaware R.R., Delaware Co., Contr. 208. G. J. Gillespie, pres.; adv. this issue.

N. Y., New York—June 30, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in White Plains Rd., Tudor Pl., Bronx Blvd., Grand Concourse, Bissel, Davidson, De Kalb, Hering, Jerome, Murdock, Philip, Paulding, Sackett, Spencer, Vincent, Whitlock and Wilder Aves., East 171st, East 196th, West 238th and West 263rd Sts., Boro of Bronx.

N. Y., New York—June 30, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., transferring taps and rearranging connections on existing mains in Ludlow, Suffolk, East 11th, West 20th and West 51st Sts.; furnishing, delivering and installing new pier lines and dock hydrants at Pier 5, East River, Pier 33, East River, Pier 43, North River, and Pier 69, East River, replacing existing pier lines and dock hydrants at Pier 103, East River and Pier 114, North River.

N. Y., Peru—June 29, by Bd. Water Comrs., concrete and earth dam, gatehouse, chlorinator and 3.6 mi. pipe line, etc. R. L. Signor, Plattsburgh, engr.; adv. this issue.

Pa., Reading—July 5, foundations and suction vault for Pump 4, Contr. 24; c.i. pipe and specials, Contr. 25; test borings, Contr. 26. E. L. Nuebling, ch. engr. Water Bureau; adv. this issue.

N. C., Morganton—June 30, at office O. B. Lackey, town mgr., gravity water system and extension to distribution system.

S. C., Charleston—July 3, constructing 30,000 ft. rein.-con. and terra cotta pipe drains and appurtenances. J. H. Dingle, city engr.; adv. this issue.

Tenn., Memphis—July 6, by Artesian Water Dept., 105-107 North 2nd St., 9,550 lin.ft. 6-12 in. drive pipe, etc. W. H. Harrison, genl. supt.; adv. this issue.

Fla., Quincy—See "Industrial Works."

O., Cleveland—June 30, placing 3,750 cu.yd. rubble concrete on crib pocket at Crib 3, 3 mi. from mouth of Cuyahoga River. To exceed $25,000. A. V. Ruggles, 213 City Hall, engr.

O., Euclid—July 3, c.i. mains in Donal Ave., Beck St., Evergreen and Cut Rds. To exceed $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

Wis., Benton—July 11, by A. F. Whaley, village clk., 30,000 gal. water tank, steel or wood, on present stone tower, incl. pipe and valve connections. H. Kleinhammer, Platteville, engr.

Mich., River Rouge—June 27, by R. Peters, city clk., concrete, brick or segment block tunnel, to carry watermains, gas and electric conduits, under River Rouge, 8½ or 13 ft. inside diam. Former bids rejected. Noted May 25.

Ill., Maywood—June 30, drilling artesian well. F. Meyer, supt. Water Dept.; adv. this issue.

S. D., Harrold—July 10, waterworks system. $20,000. Western Eng. Co., Yankton, engrs.

Okla., Wewoka—June 26, two 250,000 gal. per day rapid sand mechanical filters, high and low duty pump station, repairing and raising present dam, intake, etc. Former bids rejected. Benham Eng. Co., 512 Gimbel Bldg., Kansas City, Mo., engrs. Noted May 18.

Ont., Fort Frances—See "Streets and Roads."

Ont., Kincardine—June 27, by H. Hudson, chn. Waterworks Com., c.i. pipe excav. and concrete, work, gate valves, motors, pumps, etc. $50,000. F. W. Thorold, 54 Admiral Rd., Toronto, engr.

Ont., Long Branch—June 26, by S. Barratt, clk., Islington, 8 mi. c.i. distribution system, 6-10 in. c.i. pipe, Contr. A; c.i. specials, Contr. B; valves and hydrants Contr. C; laying and jointing 8 mi. mains, Contr. D. $150,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

BIDS RECEIVED

O., Columbus—R. W. Smith, clk. Franklin Co. opened bids June 17, 1,260 ft. 12 in. cement and 1,470 ft. 6 in. wood mains, from Pitt Constr. Co., Fulton Bldg., Pittsburgh, Pa., Engrs. est. $15,000. Noted June 8.

O., Euclid—For c.i. mains in 13 streets, from McDace & Martin, 1452 West 98th St., Cleveland, $37,792.

Minn., New Prague—For 25,768 ft. c.i. pipe, special castings valves, valve boxes, etc., to N. Santucci, Rockford, Ill., $32,000. Noted Nov. 17.

Wash., Walla Walla—Water Comn., Div. 2 of water system, 4 mi. 20 in. pipeline into Wenaha National Forest, gravity dam, 100 ft. wide, 16 ft. high, sluice gates, etc., from Pacific Coast Paving Co. for complete work, $147,397; wood pipe from Pacific Coast Paving Co. and Continental Pipe Co., 4519 14th St. N.W., $43,971 and $45,540 respectively; hauling, distributing and laying concrete pipe from Walla Walla Concrete Pipe Co., Walla Walla, $52,416, Willamette Iron Steel Wks., Front and Nicolai Sts., Portland, riveted steel No. 10, $58,757, riveted steel ⅜ in., $63,522, electric welded No. 10, $55,847, electric welded ⅜ in., $56,200. Engineer Husseys cursory consideration showed the following combination costs on bids submitted: concrete pipe, $142,073, wood stave pipe, $147,396, ⅜ in. electric arc welded steel pipe, $167,488, ⅜ in. riveted steel pipe, $175,125. Engrs. est. $150,000.

Que., Montreal—Water Works Dept., received bids for 25,000,000 gal. rein.-con. reservoir, 500 ft. square, 18 ft. deep, from E. G. M. Cape & Co., Cathcart St., $575,000; Anglin Norcross & Co., Victoria St., $619,669; D. G. Loomis & Sons, St. Patrick St., $635,000. Noted June 15.

CONTRACTS AWARDED

Mass., North Grafton—Comn. Mental Diseases, Boston, furnishing 18,744 ft. c.i. pipe at Gramton State Hospital Colony, to Warren Fdry. & Machine Co., 201 Devonshire St., Boston; laying same, to C. & R. Construction Co., 3 Tremont Row, Boston. Noted April 13.

Conn., Stamford—Stamford Water Co., 271 Main St., constructing concrete dam and appurtenances across Mill River in Stamford and New Canaan, at Highridge, 2,000,000,000 gal. capacity reservoir, to H. Steers Corp., 17 Battery Pl., New York. Engrs. est. $750,000. Noted May 4.

N. Y., North Tonawanda—To Hydro Constr. Co., Mutual Life Bldg., Buffalo, excavation, grading and concrete work for filter plant, pump station addition and wash tank, $89,288, superstructure for filter plant and pumping station addition, $30,920, superstructure and foundation for addition to boiler room, $3,390; to Pitt Constr. Co., Fulton Bldg., Pittsburgh, Pa., filter equipment incl. settling basin and clear water basin equipment, outside piping, suction and discharge piping for high service and discharge piping for high and low service pumps, $74,000, plastering inside walls of pump station addition, $1,500, automatic control apparatus for coagulant machines, $1,200, rein.-con. floor for portion of existing pump station, $20 per cu.yd.; to Buffalo Steam Pump Co., 490 Bway., Buffalo, low service pumping engines, $10,328; to Memphis Steel Constr. Co., Magee Bldg., Pittsburgh, Pa., wash tank, $3,550; to S. D. Stafford, reconstructing dock wall, $4,700. Noted June 8.

N. Y., Wilson—See "Sewers."

N. J., Wallington—Mayor and Boro Council, steel stand pipe with concrete foundation, etc., on north-westerly side of Summit Ave. about 60 ft. southwest of Reservoir Ave., to Gippett & Wood, Phillipsburg, $7,717. Noted June 1.

Waterworks (Continued)

D. C., Wash.—Washington Suburban Sanitary Comn., Chevy Chase, water mains, Contr. 28-W, to P. Agrios, Hotel Buchtel, Akron, O., $73,976; Northwest Branch-Sligo Branch connecting main, Contr. 30-W, to Boyle Contg. Co., 4413 Belview Ave., Baltimore, Md., $9,129. Noted May 18.

N. C., Mebane—Constructing 500,000 gal. concrete filter plant, clear water basin, auxiliary pumping station, two 400 gal. per minute motor driven centrifugal pumps, 6,000 ft. 8 in. c.i. B & S pipe, to B. W. Harris, Durham, $29,550; laying pipe to P. N. Howard, Raleigh, $2,700. Noted May 25.

O., Cleveland—Cuyahoga Co., 42,000 ft. 6-17 in. c.i. mains in Parma Water Dist. (Impvt. 15), Schedules A, to Gantose Constr. Co., Columbia Bldg., $134,034; Schedule B to D. Pfahl & Co., Guardian Bldg., $55,119. Noted June 8.

O., Columbus—W. H. Duffy, dir. Pub. Serv., 10,800 ft. 24 in. main in Parsons Ave. from Livingston Ave. to viaduct, to Grant-Boulton Co., Central Natl. Bank Bldg., $89,730. Noted June 8.

O., South Euclid—For 10,925 ft. 4-10 in. c.i. mains in Green, Elliot and Felton Rds., to A. Marra Co., Ulmer Bldg., Cleveland, $46,629. Noted June 15.

Minn., Sauk Center—Water system improvements, distribution system to L. Goldstein, c/o L. P. Wolf, engr., 1000 Guardian Life Bldg., St. Paul, $38,302; concrete reservoir to A. Nelson, Sauk Center, $10,748; well to J. F. Coyle, Sauk Center, $4,400; pump house to D. A. Pangburn, Sauk Center, $7,000. Noted May 25.

Cal., Long Beach—Furnishing 2,848 ton c.i. pipe and 52 ton fittings, to U. S. Cast Iron Pipe & Fdry. Co., Wright & Callender Bldg., Los Angeles, $140,000.

Cal., Pasadena—City will lay 20 in. c.i. mains in East Colorado St., by day labor. $50,000. H. B. Morris, City Hall, engr.

Sewers

PROPOSED WORK

O., Columbus—Franklin Co. plans building sewer in Clinton No. 2 Sewer Dist., 4,759 ft. 12-24 in. and 32,865 ft. 6 in. pipe, $81,000; 7,636 ft. 8 in. pipe, $15,000. E. T. Bradbury, 174 East Long St., engr.

Minn., Chaska—Plans sewerage system. $30,000. J. B. Connolly, clk. J. W. Shaffer & Co., 917 New York Life Bldg., Minneapolis, engrs.

Minn., Harmony—Plans new sanitary sewerage system in various streets. $40,000. L. P. Wolff, 100 Guardian Life Bldg., St. Paul, engrs.

Minn., Montgomery—Plans new sanitary sewerage system in various streets. $50,000. Druar & Milinowski, 500 Globe Bldg., St. Paul, engrs.

Minn., St. Charles—Plans new sanitary sewerage system with Imhoff tank. $30,000. C. L. Pillsbury Co., 1200 2nd Ave., S., Minneapolis, engrs.

Que., Hull—See "Waterworks."

BIDS DESIRED

N. Y., Thiells—July 13, by M. B. Patterson, pres. Bd. Mgrs. Letchworth Village, 7 Wall St. New York, sanitary work and additions to sewage disposal plant, here. L. F. Pilcher, Albany, state archt.; adv. this issue.

N. J., Camden—July 19, brick and concrete sewer in various streets. $35,000. C. P. Farnum, City Hall, engr.

N. J., Woodbury Heights—June 29, by Boro Council, sanitary sewerage system. Remington & Vosbury, 601 Market St., Camden, engrs.; adv. this issue.

Pa., Clairton—June 26, by V. E. Ohl, supt. streets, 6 and 8 in. sanitary sewer, main and laterals in various streets. $25,000. R. H. Evans, city engr.

Pa., Etna (Pittsburgh P. O.)—See "Streets & Roads."

S. C., Charleston—July 3, constructing 90,000 ft. 8-36 in. terra cotta pipe sewers. J. H. Dingle, city engr.; adv. this issue.

O., Dayton—June 27, by Comrs. Montgomery Co., 27,143 ft. 6-10 in. vitr. sewer in Westwood Sanitary Sewer Dist. Sub-Dist. "C," 22,000 lin.ft. 1-16 ft. trench, etc.; 30,233 ft. 6-15 in. vitr. sewer in Lakeside Sanitary Sewer Dist., Sub-Dist. "B," 24,500 ft. 1-20 ft. trench, etc.; 6,365 ft. 27 and 30 in. vitr. sewer in Westwood Sanitary Sewer Dist.-Main Sewer, 6,300 ft. 8-18 ft. trench, etc.; 8,244 ft. 30 and 36 in. vitr. or concrete sewer in Westwood and Lakeside Sewer Dist.-Main Outlet Sewer, 8,200 ft. 6-20 ft. trench, etc.; 11,242 ft. 8 in. vitr. sewer in Lakeside Sanitary Sewer Dist.-Sub-Dist. "A," 11,200 ft. 1-14 ft. trench, etc.; 69,781 ft. 6-27 in. vitr. sewer in Westwood Sanitary Sewer Dist. Sub-Dist. "A" and "B," 49,900 ft. 1-18 ft. trench, etc. $480,000. K. B. Allen, U. B. Bldg., engr. Noted June 15.

O., Euclid—July 3, sewers in Donal Dr., Chelsia and Ivan Aves. To exceed $25,000. F. A. Pease Eng. Co., Marshall Bldg., Cleveland, engrs.

O., Maple Heights—June 26, storm and sanitary sewers in Kahout St., Greenlawn Ave., Mapleboro Rd. and Clement Dr. $25,000. C. W. Courtney, 509 Leader News Bldg., Cleveland, engr.

Mich., Menominee—July 7, by F. S. Norcross, city clk., main sewers in various streets, incl. 6,896 ft. 18, 24 and 30 in. pipe. T. R. Hasley, city engr. Noted June 15.

Ont., Fort Frances—See "Streets & Roads."

Minn., Graceville—July 7, by J. J. O'Connor, clk., Sewer Dist. 5, 7,400 lin.ft. 15 in. and 3,800 lin.ft. 8 in. vitr. sewer pipe, 24 manholes, 1 flush tank, 1 Imhoff tank and sludge bed. $30,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, Ia., engrs.

Tex., Electra—See "Dams."

Ont., Fort Frances—See "Streets & Roads."

BIDS RECEIVED

O., Sandusky—Erie Co. opened bid June 1, sewage disposal plant and 17,950 ft. 8-10 in. vitr. sewers, from A. C. Schultz, Sandusky, $68,000; Gangl Constr. Co., 737 2nd Natl. Bldg., Akron, $72,000. Noted May 25.

Mich., Detroit—For brick and monolithic concrete sewers in (1) Trombly Ave. Arm of Jos. Campau Sewer, (2) Harper Ave. Arm of Ashland Ave. Sewer, Sect. 1, (3) Carrie Ave. Arm north of Six Mile Rd. Sewer, (4) Moran Ave. Arm of McDougall Ave. Sewer, from Connelly Bros., (1) $90,116; J. A. Mercier, 216 Hammond Bldg., (1) $94,570, (2) $136,752; A. Tobin, 449 West Columbia Ave., (1) $103,006, (2) $141,027; Jeynes & Affeld, 1208 Ford Bldg., (2) $129,936; J. Porath, 34 McGraw Bldg., (3) $47,134; R. D. Baker, 1631 Elmhurst Ave., (3) $36,984; J. Winterbottom, 18524 John R St., (3) $41,165; A. Rossi, 1343 Brady St., (4) $39,990; J. Wagner, 2735 West Grand Blvd., (4) $41,355. Noted June 15.

CONTRACTS AWARDED

N. Y., Wilson—Bd. Village Trustees, sewerage and waterworks system, to P. Agrious, Akron, O. Engrs. est. $60,000. Noted May 18.

N. J., Paterson—Passaic Valley Sewerage Comrs., 128 Market St., Newark, sewer connections in East 11th St., 6th and 1st Aves., here, to Arnolt-More, Inc., 45 Clinton St., Newark, $42,500. Noted June 8.

Pa., Pittsburgh—Sewers in Tesla, Loretta and McCaslin Sts., to M. O'Herron Co., South 1st and McKean Sts., $27,279.

D. C., Wash.—Washington Suburban Sanitary Comn., Evans Bldg., New York Ave., Riverdale and Brentwood Sewers, Contrs. 15-S and 16-S, to E. C. Baker, Uniontown, Pa., $41,835 and $54,574 respectively. Noted May 18.

O., Brookfield Center—Trumbull Co. (Warren), 8 mi. 8-24 in. storm and sanitary sewers in Brookfield Ave., State and High Sts., here, to Turner Contg. Co., Park Theatre Bldg., Youngstown, $80,970.

O., Cleveland Heights (Warrensville P. O.)—For 11,800 ft. 8-24 in vitr. sewers, etc., in Woodridge, Oxford and Quilliams Rds., to Hadded Mall Co., Schofield Bldg., Cleveland, $51,025. Noted June 15.

O., Euclid—Sewers in 5 streets, to A. C. Hattendorf, 13601 6th Ave., East Cleveland, $26,517; 2 streets, to Hadded Mall Co., Schofield Bldg., Cleveland, $24,418; 4 streets to C. Hukari, 14109 Benwood Ave., Cleveland, $11,081; 1 street to J. Consolo, 14109 Benwood Ave., Cleveland, $12,883; 1 street to Iafornaro Constr. Co., Murray Hill Rd., Cleveland, $13,638; 1 street to Kassouff Co., 3182 West 25th St., Cleveland, $11,848; 9 streets to J. B. Lynn, Euclid, $106,593; 7 streets to A. J. Galvin, 343 The Arcade, Cleveland, $57,430; 2 streets to B. J. Whittaker, West 98th St., Cleveland, $4,758. Noted June 15.

Mich., Echo City (Pontiac P. O.)—Leinbach-Humphrey Co., 12,720 ft. 8-24 in. lateral sewers and 15,700 ft. water mains, to J. C. Brooks & Son, Jackson, $70,000.

Wash., Seattle—Bd. Pub. Wks., trunk sewer in Murray Ave. et al, to Scalzo & Co., 1708-22 Ave., South Seattle, bid ranges from 225, 404 to 229, 546. Noted June 15.

Cal., San Anselmo—Marin Co. Sanitary Dist. 1, constructing trunk and outfall sewers, 8-12 in. vitr. pipe balance ranging to 30 in., bell and spigot concrete, to Harron & Hayes, Pacific Bldg., San Francisco, $137,608. Noted Jan. 26.

Ont., Saulte Ste. Marie—For 12,000 ft. sanitary sewers in Harris and Buckley Sts., incl. 1,477 ft. 18-42 in. rein.-con. pipe and 10,497 ft. 8-15 in. vitr. pipe, Sect. A, to A. Donnato, 436 Sherbourne St., $17,981; Sects. B and C, to L. Nonni, 546 Albert St., $12,240.

Ont., Toronto—Vitr. tile sanitary sewer in Margueretta St., to A. Cavotti, 257 Euclid Ave., $32,283; in Ardagh St., to Grant Contg. Co., 50 Front St., E., $3,390, work incl. 14,000 ft. pipe, 8 in. up.

Waste Disposal

PROPOSED WORK

N. Y., Elmira—Murphy Process Co., plans 1 story, 52 x 540 ft. piggery and fertilizer plant, cement and timber, south of city, to take and dispose of garbage, etc. To exceed $5,000. Architect not announced.

BIDS DESIRED

N. Y., Buffalo—July 25, at office Dept. Pub. Wks., Municipal Bldg., piggery and incinerating plant. A. W. Kreinheder, comr.; adv. this issue.

Bridges

PROPOSED WORK

R. I., Providence—Plans 80 ft. bridge, 50 ft. wide, Union Ave. $25,000. M. H. Brondson, city engr.

N. Y., Binghamton—Plans concrete bridge, Ferry St. $100,000. Q. De Quarles, Albany, engr.

N. Y., Pulaski—Takes bids in about 4 weeks 350 ft. rein.-con. and steel bridge, 30 ft., over Salmon River. $65,000. Concrete Steel Eng. Co., 21 Park Row, New York, engrs. Noted April 27.

Pa., Girard—State, Erie Co., Boro. and New York, Chicago & St. Louis R.R., 327 South LaSalle St., Chicago, Ill., having plans prepared concrete and steel bridge, Rice Ave., here. $66,000. F. E. Winter, Erie, state engr. C. C. Hill, Erie, co. engr. E. E. Hart, Columbia Bldg., Cleveland, O., ch. engr. of railroad.

Neb., Oreapolis (Plattsmouth P. O.)—Chicago, Burlington & Quincy R. R., 547 West Jackson Blvd., Chicago, receives bids in about one month, for steel and concrete bridge to replace present bridge over Platte River, near here. $400,000. W. T. Krausch c/o owner, engr.

Wyoming—State Hy. Dept., Cheyenne, plans 286 ft. two-hinge, steel, cantilever arch bridge, 18 ft. wide, 5 mi. west of Green River, Sweetwater Co. $30,000. J. F. Seller, state highway bridge engr.

Missouri—State Hy. Dept., Jefferson City, plans one 46 ft. I beam span-skewed on Federal Aid Project 58, Sect. A; one 30 ft., one 32 ft. and one 45 ft. I beam spans on Federal Aid Project 58, Sect. C; 2 rein.-con. low water bridges, two 30 ft. and one 46 ft. I beam spans on Federal Aid Project 58, Sect. B all in Butler Co. B. H. Piepmeier, state highway engr.

Tex., Beaumont—Jefferson Co. making plans deck girder and concrete trestle bridge over Pine Island Bayou on Highway 40. $42,560. A. C. Love, co. engr.

BIDS DESIRED

N. Y., Long Island City—June 28, by G. A. Whalen, comr. Plant & Structures, Municipal Bldg., New York, piers for bridge over Beach Channel, Jamaica Bay Blvd., here.

N. J., Salem—July 8, by Salem Co. for Bridge 57 M. P. O. O. W. on Route 6 State Highway System, over Fenwick Creek. H. B. Keasbey, Salem, co. engr.; adv. this issue.

N. C., Graham—See "Streets and Roads."

Fla., West Palm Beach—July 5, by Bd. Comrs. Palm Co., at clerks office, bascule lift span across lock chamber on Lock 3, Palm Beach Canal at crossing of Dixie Highway, etc. H. Harris, chn.; adv. this issue.

Tennessee—July 14, by State Hy. Dept., Nashville, substructure for Clarksville Bridge, concrete piers and approaches. Total $325,000. Superstructure will be advertised later as separate contract.

Wash., Seattle—See "Streets and Roads."

Cal., Salinas—July 6, by Supervs. Monterey Co., constructing 712 ft. steel bridge, 21 ft. wide, including piers, abutments, etc., over Salinas River near Hilltown. Bids on two 80 ft. pony trusses, three 180 ft. through spans, 21 ft. roadway, concrete floor, and on three 180 ft. through steel spans and two 80 ft. pile trestles. H. F. Cozzens, Salinas, engr.

Ont., Niagara Falls—June 30, by Michigan Central R.R., Michigan Central Terminal, Detroit, Mich., fabricating and erecting 640 ft. steel arch bridge over Niagara River between here and Niagara Falls, N. Y. B. A. Aikens, purch. agt. H. Ibsen, bridge engr.

Ont., Orangeville—June 26, by Wheelock & Christie, engrs., County Bldg., one 100 ft. span bridge and one 180 ft. bridge,

Bridges (Continued)

alternative designs in concrete and steel, five 6 ft. and one 8 ft. concrete culverts. $60,000.

BIDS RECEIVED

Conn., New Haven—Dirs. Pub. Wks., constructing new Tomlinson bridge and temporary bridge over Quinnipiac River, from C. W. Blakeslee & Sons, Inc., 58 Waverly St., granite piers, wood block pavement, $519,385, granite piers, asphalt pavement, $507,615, sandstone piers, wood block pavement, $486,915, sandstone piers, asphalt pavement, $475,143; H. Steers, Inc., 17 Battery Pl., New York, granite piers, wood block pavement, $677,156, granite piers, asphalt pavement, $659,386, sandstone piers, wood block pavement, $591,184, sandstone piers, asphalt pavement, $573,414. Noted May 18.

Ia., Newton — Jasper Co., one 331 ft. structural steel bridge, two 80 ft. plate girder spans and six I-beam span approaches, also one single span 80 ft. plate girder bridge, from Vinton Eng. & Constr. Co., Vinton, $32,340; Wickes Eng. & Constr. Co., Polk Bldg., Des Moines, $33,950; F. E. Marsh & Co., Jefferson, $34,950. Noted June 8.

CONTRACTS AWARDED

New Hampshire—State Hy. Dept., Concord, rein.-con. bridge between Concord and Pembroke, 655 cu.yd. concrete masonry, 1,600 lin.ft. wooden piling, 550 cu.yd. earth approach and fill, 78,000 lb. reinforcing bars, to L. H. Shattuck, Inc., 208 Granite St., Manchester, $24,899. Engrs. est. $25,600.

N. Y., Warsaw — Buffalo, Rochester & Pittsburgh R.R., 20 State St., Rochester, and Village of Warsaw will build viaduct on East Hill Rd., by day labor. $120,000. E. E. Robbinson c/o railroad, ch. engr. Noted April 27.

N. J., Woodstown—Bridge Com. of Bd. Freeholders Salem Co. (Salem) removing present bridge and building new bridge, over Salem Creek, on Mill St., here, to Kuchar Bros., Spring Valley, $13,240. Noted May 18.

Pa., Phila.—F. H. Caven, dir. pub. wks., 247 ft. rein.-con. and steel bridge, 52 ft. wide, South St., to Monahan & Loosee, 3016 Chestnut St., $97,161. Noted June 15.

Indiana—State Hy. Comn., Bridge Dept., Indianapolis, to J. E. Sweet & Sons, Woodburn, rein.-con. box culvert, 2 rein.-con. slabs, improving bridge, State Aid Projects 8 and 49, Lake Co., $7,323, 2 rein.-con. slabs and improving bridge, State Aid Projects 21 and 34, Wayne Co., $4,694, rein.-con. slab and steel truss, State Aid Project 37, Delaware Co., $9,278; to Henley Constr. Co., Lewisville, 6 rein.-con. slabs, State Aid Project 13, Henry Co., $8,828; to D. Y. Stout, 1006 West Main St., Crawfordsville, 2 rein.-con. girders, 3 rein.-con. slabs, State Aid Projects 31 and 32, Putnam Co., $12,603; to R. H. King, Danville, steel truss (substructure only), Federal Air Project 16, Spencer Co., $14,239; to Brookville Bridge Co., Brookville, O., steel truss (superstructure only), Federal Aid Project 16, Spencer Co., $7,401; to Central States Bridge Co., 601 Beecher St., Indianapolis, steel truss (superstructure only), Federal Aid Project 16, Spencer Co., $2,323, steel truss (superstructure only), Federal Aid Project 16, Dubois Co., $3,443; to M. & P. Contg. Co., Rockport, steel truss (substructure only), Federal Aid Project 16, Dubois Co., $3,312; to R. N. Sullivan, Peru, 5 rein.-con. slabs, Federal Aid Project 16, Dubois Co., $12,358.

Mich., Detroit—Removing old bridge and fabricating and erecting steel portion of new 153 ft. bridge, 40 ft. wide, 12th St. and Michigan Central Ry., incl. 245 ton steel, 7,500 lb. castings, to Wisconsin Bridge & Iron Co., 1362 Penobscot Bldg., $25,000.

Wis., Green Bay—For 820 ft. steel girder span, double leaf bascule type, on Main St., to Green Constr. Co., 154 North Pearl St., $472,645. Noted June 8.

N. D., Wahpeton—F. A. Burton, aud. Richland Co., and P. E. Truax, aud. Wilkin Co., Minn., 1 concrete and 9 steel bridges in Richland Co., and one 100 ft. steel bridge over Red River, north of Christine, to Great Northern Bridge Co., 225 Kasota Bldg., Minneapolis, $14,971. Noted May 25.

Missouri—State Hy. Dept., at div. office, Trenton, two 100 ft. and two 60 ft. steel truss spans on Federal Aid Project 116, Sect. B, Grundy Co., to St. Joseph Structural Steel Co., 9th and Atchison Sts., St. Joseph, $36,075. Engrs. est. $45,193. Noted June 15.

Mo., Jefferson City—Missouri Pacific R.R., Ry. Exch., St. Louis, constructing 8 open cofferdam piers, timber pile and concrete pile foundations, 2 abutments, etc., in connection with reconstruction of bridge over Osage River, near here, to Union Bridge & Constr. Co., 903 Sharp Bldg., Kansas City, $100,000.

Tex., Columbus — Colorado Co. 260 ft. bridge, one 200 ft. and one 60 ft. steel trusses, 18 ft., wood floor, one 40 ft. pier, to Austin Bros., 1813 Clarence St., Dallas, $21,429. Noted June 1.

Cal., Riverside—Bd. Supervs. Riverside Co., constructing rein.-con. arch bridge, with seven 72 ft. spans, over Santa Ana River, to J. F. Knapp, Turlock, $117,400. Noted May 4.

Ont., St. Thomas—Concrete and steel bridge, steel work to Dominion Bridge Co., 285 Beaver Hall Hill, Montreal, Que., cement work to C. O. Laidlaw, 1220 Victoria St., Windsor. Noted June 8.

Dams

PROPOSED WORK

Ind., Bloomington—Plans dam, 1,000 ft. below present dam. $140,000. U. S. Hanna, city engr.

Wis., Tomahawk — Wisconsin Valley Impvt. Co., First Natl. Bank Bldg., Wausau, had plans prepared, soon takes bids rein.-con. and steel reservoir dam, incl. gravel and earth embankment, protected by sheet piling with gate works of concrete. $100,000. Private plans. W. E. Brooks, mgr.

Cal., Sacramento—Having surveys made 900 ft. dam, 210 ft. high, and 380 ft. dam, 2,110 ft. high, both concrete arch type, and 2 power houses. If project is found feasible election will be called to vote on $7,500,000 bonds to finance construction. A. Given, City Hall, engr.

Ont., Thessalon—See "Industrial Works."

BIDS DESIRED

Tex., Electra—June 27, raising and widening present city dam, excavation for concrete spillway and building levees, concrete spillway, and sewage disposal plant. Elrod Eng. Co., 3206 Elm St., Dallas, consult. engrs.

CONTRACTS AWARDED

Conn., Stamford—Park Comn., removal of old dam, constructing rein.-con. dam, 130 ft. long, 2 rein.-con. retailing walls, cleaning and excavating channel, 145 ft. wide, 16,500 cu.yd. earth excav., 2,750 cu.yd. rein.-con., 1,600 lin.ft. 10 and 23 in. c.i. pipe, to F. Palmer, 131 Sound View Ave., $81,218. Noted June 1.

Railways

PROPOSED WORK

Maine—Eastern Maine R. R., Houlton, awaiting sanction of State Pub. Utilities Comn. to build 128 mi. extension from Houlton to Bancroft, in Aroostook Co. Private plans.

Pennsylvania—Penn-Ohio Electric Co., New Castle, plans $1,950,000 bond issue, improving and extending lines, shops, etc. Engineer not announced.

BIDS DESIRED

New York—June 26, by Transit Comn., 49 Lafayette St., New York, installing tracks for portion of 14th St. Eastern line, in Boros of Manhattan and Brooklyn. G. McAneny, chn.

Excavation and Dredging

PROPOSED WORK

Tex., Athens—Henderson Co. plans improving Levee Impvt. Dist. 1, $100,000 bond issue approved by Attorney General's Dept., Austin. A. A. Stiles, Austin, state reclamation engr.

BIDS DESIRED

Ia., Pocahontas—June 29, Auditor Pocahontas Co., D.D. 114, Sect. 1, 183,122 cu.yd. excav.; Sect. 2, 48,211 cu.yd. excav.; D.D. 59, 11,100 cu.yd. excav. $25,000. B. A. Yoder, Fonda, engr.

Minn., Waseca—July 7, by T. Peterson, aud. Waseca Co., Waseca, Judicial Ditch 8, 163,501 cu.yd. excav., 6 timber bridges, 44 flood water control structures, 72,245 lin.ft. 6-28 in. tile, forty 24 in. water intakes, 2 wells. $51,350. L. E. Pritchard, Albert Lea, engr.

N. S., Yarmouth—June 27, by Dept. Pub. Wks., Ottawa, 90,000 cu.yd. floating dredgework, sand, clay and gravel. $45,000. K. M. Cameron, Dept. Pub. Wks., Ottawa, engr.

Bahama, Nassau (New Providence) — Taking bids dredging channel and turning basin in harbor, 468,000 cu.yd. limestone and coral rock, 615,000 cu.yd. sand, low water depth 27 ft. tidal range 4 ft. S. H. R. Beard, harbor engr.

BIDS RECEIVED

Cal., Los Angeles—City Harbor Comn., City Hall, grading and excavating 318,000 cu.yd. at terminus of Outer Harbor Blvd., San Pedro Dist., from O. Hanson, 655 22nd St., San Pedro, $0.36 per cu.yd.; Warren Constr. Co., California Bldg., $0.43; C. H. Hudson, Marsh-Strong Bldg., $0.44.

CONTRACTS AWARDED

Minn., Fairmont — Martin Co., Judicial Ditch 98, 162,775 lin.ft. 6-26 in. drain tile, 800 lin.ft. 8-10 sewer pipe, 22,200 lin.ft. open ditch, 237,167 cu.yd. excav., 14 concrete bulkheads, 50 storm water inlets, 3 rein.-con. bridges, etc., tile to Minnesota Pipe & Tile Co., 820 West 6th St., Mankato, $56,995; tile labor to L. Goldstein, 1391 Hamline Ave., N., St. Paul; open ditch to M. J. Zabawa, Wisconsin Rapids, Wis., $.095 per cu.yd.; bridges to Blakemore & Jacobson, Fairmont, $8,265. Noted May 25.

Minn., Marshall—Lyon Co., for (1) Co. Ditch 48 Sect. 1, main open ditch, 96,000 cu. yd. excav., 2 concrete drops, 60 cu.yd. concrete, (2) main tile ditch, 19,425 lin.ft. 6-20 in. tile, 16 inlets, 1 bulkhead, (3) Branch 5, 25,005 lin.ft. 6-24 in. tile, 18 inlets, c.i. grates, 4 bulkheads, 21 cu.yd. concrete; open work on (1) to Ryan & Brown, Litchfield, $9,542; labor on (2) and (3), to Tenquist & Lofquist, Redwood Falls, $6,850; tile to What Cheer Clay Products Co., What Cheer, Ia., $11,585. Noted May 25.

Ariz., Phoenix—Auxiliary Eastern Canal Co., irrigation system, 22 mi. main canal, cement lined, 213,200 cu.yd. excav., 110 mi. lateral system, 171,200 cu.yd. excav., drilling thirty-four 200 ft. wells, repairing 31 wells, electric pumping equipment, etc., to Engineering Constr. Corp., Pacific Electric Bldg., Los Angeles, Cal., $1,700,000. Noted March 17, 1921.

Streets and Roads

PROPOSED WORK

Mass., Roxbury (Boston P. O.)—Plans resurfacing Humboldt and Blue Hills Aves., asphalt or other approved type. $153,000. J. A. Carty, city engr.

Conn., West Haven—Plans paving et al Campbell Ave. from Brown St. to shore front, concrete. $35,000. Engineer not selected.

New York—H. S. Sisson, comr. State Hy. Dept., Albany, received no bids June 13, repairing 1.27 mi. Highway 5121. Repair Contr. 1346, Chenango Co. Noted May 25.

N. Y., New York—H. Bruckner, pres. Bronx Boro, rejected bids opened June 7, paving Valentine Ave., etc. $125,000. Will readvertise. Noted June 15.

N. Y., Niagara Falls—City Manager soon takes bids paving Whitney Ave., sheet asphalt. $25,000. W. B. Bennett, Convention Hall, city engr.

N. Y., Waterloo—Plans paving 2.25 mi. various streets, double seal tarvia. $25,000. Engineer not selected. Address C. V. Crane, member of street com.

N. J. Camden—Soon takes bids paving various streets, concrete and asphalt, etc. $100,000. L. P. Farnum, City Hall, engr.

Pa., Mercer—Comrs. Mercer Co. (Mercer), Pa., and Trumbull Co., (Warren), O., plan to improve and resurface 4 mi. Sharon-Orangeville Rd. To exceed $25,000. F. P. Graham, Grove City, Mercer Co., engr. A. Bricker, Warren, O., Trumbull Co., engr.

W. Va., Charleston — Kanawha Co., Malden Dist., voted $90,000 bonds constructing Malden Dist. Rd. F. G. Burdette, co. engr.

North Carolina—State Hy. Comn., plans grading and concrete or asphaltic paving 6 mi. road between Fayetteville and Hope Mills, Project 342, Cumberland Co. $160,000. C. M. Upham, state highway engr.

N. C., Brevard—Transylvania Co. plans 7 mi. macadam or gravel road from Rosman to Pickens Co. line, South Carolina. $75,000. T. H. Shipman, chn. co. rd. comn.

N. C., Danbury—Stokes Co. plans improving various roads. $150,000. J. W. Slate, Danbury, comr.

N. C., Hertford—Perquimans Co. plans constructing various roads, brick or some other type of hard surface. $389,000. J. Higgs, Hertford, engr.

N. C., Snow Hill—Plans concrete or asphaltic paving and constructing concrete sidewalks on various streets. $100,000. Engineer not announced.

Ohio—Dept. Highways and Pub. Wks., Columbus, cancelled bids which were to be opened June 16, grading, bridging and paving roads in following counties:

Ottawa Co., Sect. "L" Toledo-Elmore Rd., 0.992 mi., brick, bituminous concrete or rein.-con.

Sandusky Co., Sect. "A" Toledo-Elmore Rd., 2.278 mi., brick, bituminous concrete or rein-con.

Streets and Roads (Continued)

Trumbull Co., Sect. "Newton Falls" Revenna-Warren Rd., 0.765 mi. brick.

Vinton Co., Sect. "A" McArthur-Gallipolis Rd., 0.341 mi., grading roadway and completing bridge.

Muskingum Co., Sect. "R" Zanesville-McConnelsville Rd., 1.092 mi., grading and constructing drainage structures.

Ottawa Co., Sect. "L" Toledo-Elmore Rd., constructing concrete bridge. Noted June 8.

O., Dayton—Plans paving and curbing 1,200 ft. Louise St. from Norwood to Washington Sts., 2,000 lin.ft. cement curb, 4,000 sq.yd. vitr. brick on concrete. $31,467. I. E. Houk, city engr.

Michigan—State Hy. Dept., Lansing, soon takes bids grading and surfacing 4.8 mi. State Trunk Line Rd., 12-42, Iron Co., bituminous macadam. L. H. Belknap, ch. engr.

Michigan—State Hy. Dept., Lansing, soon takes bids grading and surfacing 6 mi. Federal Aid Project 66, Sect. A, asphalt, concrete or bituminous concrete. L. H. Belknap, ch. engr.

Ia., Merrill—Making plans paving 25,000 sq.yd. various streets. $55,000. W. E. Buell & Co., 205 Davidson Bldg., Sioux City, engrs.

Minn., St. Paul—Plans repaving about 3 mi. various streets. $200,000. O. Claussen, city engr.

Missouri — State Hy. Dept., Jefferson City, plans grading and surfacing 8.499 mi. from Lutesville-northeastwardly, Federal Aid Project 174-B, 51,592 cu.yd. earth and 8,609 cu.yd. rock excav., 28,892 cu.yd. borrow, 534.1 cu.yd. Class B and 23.6 cu.yd. Class C concrete, 44,286 lb. reinforcing, 60,009 sq.yd. gravel surfacing Specification C, etc.; 10.045 mi. from Lutesville southwestwardly, Federal Aid Project 174-A, 40,627 cu.yd. earth and 3,612 cu.yd. rock excav., 23,777 cu.yd. borrow, 671 cu.yd. Class B and 23 cu.yd. Class C concrete, 53,064 lb. reinforcing, 71,254 sq.yd. gravel surfacing, etc., both Bollinger Co.; 4.665 mi., from Osceola north and southwest, State Aid Project 20.176, St. Clair Co., 12,814 cu.yd. earth and 1,870 cu.yd. rock excav., 3,188 cu.yd. borrow, 45.7 cu.yd. Class B and 3.2 cu.yd. Class C concrete, etc.; 5.953 mi. from Windsor westwardly, Federal Aid Project 132, Henry Co., 10,385 cu.yd. earth excav., 44,891 sq.yd. Specification B and 121,425 sq.yd. Specification C gravel pavement, etc.; 10.416 mi. from Bear Creek east and west, Federal Aid Project 74, Cedar Co., 34,924 cu.yd earth and 931 cu.yd. rock excav., 293.3 cu.yd. Class B concrete, 24,429 lb. reinforcing, etc.; 3.7 mi. north of Licking, Federal Aid Project 109 B, Texas Co., 16,100 cu.yd. earth and 1,225 cu.yd. rock excav., 100.6 cu.yd. Class B and 6.6 cu.yd Class C concrete, 26,304 sq.yd. gravel pavement, etc. All foregoing 24 ft. wide. B. H. Piepmeier, state highway engr.

Missouri—State Hy Dept., Jefferson City, plans 14.841 mi. road from Advance northeast and south. Federal Aid Project 187, Stoddard Co., 93,969 cu.yd. earth excav., 36,078 cu.yd. borrow, 830.3 cu.yd. concrete masonry, 104,842 sq.yd. specification C gravel pavement, etc. B. H. Piepmeier, state highway engr.

Missouri—State Hy. Dept., Jefferson City, plans 1.754 mi. road from Wayland to Keokuk. Federal Aid Project 172, Clark Co., 3.914 cu.yd. earth excav., 1,444 cu.yd. borrow, 16,576 sq.yd. 1 course concrete, 26.5 cu.yd. concrete masonry, etc.; 7.366 mi. road from Poplar Bluff to Arkansas State line, Federal Aid Project 58, Sect. A, Butler Co., 32,170 cu.yd. earth excav., 496 cu.yd. borrow, 83.1 cu.yd. concrete masonry, 52,727 sq.yd. gravel surfacing, etc.; 8.526 mi. road from Poplar Bluff to Arkansas State line, Federal Aid Project 58, Sect. C, Butler Co., 11,685 cu.yd. earth excav., 49,460 cu.yd. borrow, 98.9 cu.yd. concrete masonry, 59,618 sq.yd. gravel surfacing, etc.; 8,526 mi. road from Poplar Bluff to Arkansas State line, Federal Aid Project 58, Sect. B, Butler Co., 35,186 cu.yd. earth excav., 8,567 cu.yd. borrow, 106.3 cu.yd. concrete masonry, 60,108 sq.yd. gravel surfacing, etc. B. H. Piepmeier, state highway engr.

Tex., Austin—Travis Co. making plans grading and surfacing 8.6 mi. State Highway 20-A from Oak Hill to Harp Co. line, incl. 51,000 cu.yd. earth, 4,200 cu.yd. solid and 6,000 cu.yd. loose rock excav., 610 cu. yd. concrete, 25,400 lb. reinforcing. $36,685. O. Leonard, co. engr.

Tex., Eldorado—Schleicher Co. surfacing with bituminous topping 11.5 mi. State Highway 4, 16 ft. $49,840. G. Gilchrist, San Angelo, engr. in charge.

Tex., Franklin—Robertson Co. sold $150,000 bonds for 29 mi. roads in Rd. Dist. 7, south of New Baden. L. Acker, Nacogdoches, co. engr.

Tex., Lubbock—Lubbock Co. plans grading and graveling 8 mi. State Highway 7 between here and Slaton, 16 ft. $33,000. P. F. Brown, co. judge.

Tex., Orange—Orange Co. making plans grading and paving 5.87 mi. State Highway 3 from Vidor to Jefferson Co. line, incl., 100,000 cu.yd. borrow, 7,600 cu.yd. roadway excav., 61,998 sq.yd. concrete pavement, also 154 ft., 66 ft. and 44 ft. rein.-con. bridges. $320,956. J. E. Johnson, co. engr.

Tex., Seguin—Guadalupe Co. making plans surfacing with 1½ in. bituminous topping, 15.7 mi. State Highway 3-A, incl., 128,950 gal. asphaltic oil, 7,092 cu.yd. cover material. $72,437. S. C. McCarty, co. engr.

Cal., Fresno—Had revised plans prepared improving Echo Ave. between Olive and Pine Aves., 63,576 sq.ft. grading, 57,470 sq. ft. 1½ in. warrenite on 3½ in. asphalt, 3,328 lin.ft. curb, 6,106 sq.ft. gutter, 16,594 sq.ft. walks, 300 lin.ft. 4 in. pipe sewer, 306 lin. ft. 12 in. culverts, etc. W. Stranahan, city engr. Noted June 1.

Cal., Hayward—Had plans prepared improving portions of Watkins, D and 1st Sts., 8,820 lin.ft. 8 x 16 in. concrete curb and gutter, 26,750 sq.ft. concrete gutter, 133,360 sq.ft. 1½ in. asphaltic concrete on 3½ in. concrete, 40,420 sq.ft. 4½ in. asphaltic concrete base with 1½ in. surface, 65,990 sq.ft. 2½ in. asphaltic concrete on existing asphalt macadam, etc. J. B. Holly, Albany Bldg., Oakland, engr.

Cal., Marysville—Had plans prepared 1,325,000 sq.ft. paving. Soon takes bids paving 1 street and 4 alley intersections involving 25,000 sq.ft. 1½ warrenite on 2½ in. black base. W. Meek, city engr.

Cal., Merced—Merced Co. plans paving with asphaltic concrete 6 mi. closing gap in county highway system between Viola and Gustine; ¾ mi. road connecting Dos Palos with Fresno Co. line; 4 mi. road from Gustine Volta Rd. to connect with state highway coming over hill from Pacheco pass to Los Banos; 3½ mi. road connecting Dos Palos with State Rd. at county line. $250,000. A. E. Cowell, co. surv.

Cal., Tracy—Had specifications prepared improving 1,338 ft. 11th St. from Orient to East Sts., 20 ft., and 1,337 ft. 11th St. from West Park to West city limits, engrs. est. for above, including engineering and contingencies $21,480; 3,988 ft. 11th St. from East St. to West Park, 40 ft., engrs. est. $79,261. Work involves 105,311 sq.ft. oil macadam grading at $0.10 per sq.ft.; 53,628 sq.ft. paving $0.26; 6,419 cu.yd. excav. $1; 432 cu.yd. embankment $1; 124,570 sq.ft. paving plus 40,989 sq.ft. intersection $0.30; 7,622 ft. curbing $1. W. D. Harrington, Tracy, engr.

Cal., Vacaville—Having plans prepared 37,000 sq.ft. 2½ in. asphaltic concrete base with 1½ in. surface, 18,000 lin.ft. concrete curb. F. A. Steiger, Fairfield, engr.

Que., Longuille—Plans to expend $100,000 on roads this year. A. Goyette, supt. roads.

Que., Montreal—Engineers of city submitted to Executive Com. plans for opening Sherbrooke St. E. from Delormier Ave. to end of island; when completed it will extend from Bout-de-L'Isle to Montreal West, 13 mi. in length. Work includes building tunnel under property of Longue Pointe Asylum. $125,000.

Ont., Dunnville—Having plans prepared and takes bids about July 1, concrete pavement on Cedar St. $46,000. E. Hinchcliffe, city engr.

Ont., Listowel—Takes bids about July 15, concrete pavement on Division, Main, Wallace and Inkerman Sts., $40,000. Prices wanted on materials. Noted May 11.

BIDS DESIRED

Vermont—June 27, by T. W. Dix, comr. State Highways, Montpelier, constructing 5.71 mi. gravel road in Orange, 2.15 mi. in Concord, and 1.97 mi. gravel or bituminous macadam road in Lunenburg; adv. this issue.

Conn., New Haven—June 27, by Pavement Comn., paving about 3,500 ft. Maple St., asphalt or concrete. $30,000. E. S. Nettleton, Bureau of Engineering, city engr.

N. Y., White Plains—July 3, at office of F. L. Merritt, clk. Bd. Supervisors Westchester Co., Court House, constructing Seven Bridge Rd. in towns of New Castle and Yorktown, Croton Point Ave., Harmon, and North Bway., White Plains; adv. this issue.

N. J., Audubon—June 27, by Boro Comrs., School House 2, Wyoming and Mansion Aves., constructing Washington Terrace, Pine and Merchant Sts., Oakland, Graisberry and Cedarcroft Aves., concrete. J. J. Albertson, Court House, Camden, engr.; adv. this issue.

N. J., Barnegat—July 7, by Ocean Co., Court House, Toms River, constructing State Highway Route 4, Sect. 17, Main St., here, reinforced cement concrete. J. M. Abbott, Toms River, co. engr.; adv. this issue.

N. J., Belvidere—July 14, by Warren Co., constructing State Highway Route 9, Sect. 9A, Still Valley to Bloomsbury, reinforced cement concrete. H. W. Vetter, co. engr.; adv. this issue.

N. J., Tuckerton—July 7, by Ocean Co. Court House, Toms River, constructing State Highway Route 4, Sect. 18, here, cement concrete. J. M. Abbobtt, Toms River, co. engr.; adv. this issue.

Pa., Chester—June 27, 10,000 sq.yd. asphalt on concrete. $50,000. C. G. Worrilow, City Hall, engr.

Pa., Clairton—June 26, by V. E. Ohl, supt. streets; paving Walnut St. from State St. to 6th Ave. $50,000. R. H. Evans, city engr.

Pa., Etna (Pittsburgh P. O.)—June 26, by J. C. Armstrong, boro, clk., grading, paving and building sanitary sewer in Washington St.; repaving, recurbing and storm water sewer in Bridge St.; repaving Butler St. from Baltimore & Ohio railroad crossing to Grant Ave.; sanitary sewer between Cunningham Alley and Baltimore & Ohio tracks; grading, paving and curbing Love Alley, $25,000.

Pa., Washington — July 6, by Supervs. East Pike Run Twp., 1 mi. rein.-con. roadway on Co. Bridge 2 over Pike Run. $25,000. Cheney Eng. Co., Washington, engrs.

Pa., Windber—July 3, 13,860 sq.yd. one course rein.-con. pavement. W. J. Vickroy, 1209 Graham Ave., engr.

Maryland—July 5, by State Roads Comn., Baltimore, building section State Highway in Carroll Co., Contr. CL-39; Frederick Co., Contr. F-55; Howard Co., Contr. HO-22; Baltimore Co., Contr. B-52; St. Marys and Charles Counties, Contrs. SM-17 and CH-24. J. N. Mackall, chn.; adv. this issue.

Virginia—June 27, by State Hy. Comn., Richmond, paving 2.35 mi. Project 165, Route 9 between Grove and Lee Hall, and 7.99 mi. Project 179, Route 9 between Williamsburg and Toano, both James City Co. G. P. Coleman, comr.; adv. this issue.

West Virginia — July 11, by State Rd. Dept., Charleston, constructing Projects 34 and 60, Monroe Co., Projects 94 and 2006, Fayette Co., Projects 1 and 2003, Greenbrier Co., Projects 2039, 2040, 2042, 2043 and 2044, Mercer Co., Project 72, Hampshire Co., Project 62, Hardy Co., Project 64, Jefferson Co., Project 67, Berkeley Co., Project 2093, Mineral Co., Project 1131, Berkeley Co., Projects 72, 62, 64, 67, 1131 and 2093 will be covered by one contract; former bids on above projects rejected on June 6. Constructing Project 3063, Wyoming Co., Project 3156, Nickolas Co., Project 3019, Preston Co., 3135B, Kanawha Co., also repairing Bridge 707, Project 3066, Cabell Co. E. B. Carskadon, secy.; adv. this issue. Noted May 18.

W. Va., Fairmont—July 6, by Marion Co., grading, placing drainage structures and paving 7.3 mi. streets and road in Union Dist. L. N. Satterfield, co. clk. B. H. Palmer, dist, engr.

W. Va., Fairmont—July 6, by City and Marion Co., grading and paving 7,607 ft. Morgantown Ave., 22,760 sq.yd. vitr. brick, on concrete, 8,000 cu.yd. grading, $103,000; 1,732 ft. State St., 4,811 sq.yd. vitr. brick on concrete, 1,603 cu.yd. grading, $25,000; 1,089 ft. Water St., 630 ft. Merchant St., 185 ft. Columbia St. and 925 ft. Hopewell Rd., 5,596 sq.yd. vitr. brick on concrete, 1,943 cu.yd. grading, $27,000. E. E. Miller, City Hall, city engr. F. Milfong, Court house, co. engr.

N. C., Graham—July 3, by Spoon & Lewis, engrs., at office Alamance Co. Comn., hardsurfacing 7.3 mi. road and constructing 237 ft. steel span bridge. $100,000.

N. C., Reidsville—June 30, by Bd. Comrs., 50,000 sq.yd. concrete or asphaltic paving, 40,000 lin.ft. gutter, 16,000 sq.yd. 2 course sidewalks, etc. $175,000. W. B. Kiker, Reidsville, engr.

Fla., Quincy—July 18, by City Council, grading, curbing and paving Jefferson, Roberts, King and Washington Sts. $40,000. A. Smith, city clk. Noted June 8.

Ohio—June 30, by Dept. Highways and Pub. Wks., grading, bridging and paving roads in following counties:

Auglaize Co., Sect. "H" Lima-Wapakoneta Rd., 6.558 mi., rein.-con., $212,932, brick $243,106.

Auglaize Co., Sect. "G" Sidney-Wapakoneta Rd., 5.305 mi., rein.-con., $179,937, brick, $206,866.

Clark Co., Sect. "L-1" Springfield-Washington C. H. Rd., 1.65 mi., bituminous macadam, 36,757.

Clark Co., Sect. "O" Springfield-Washington C. H. Rd., 1.857 mi. bituminous

Streets and Roads (Continued)

macadam, asphalt or tar, $46,520, rein.-con., $54,943, bituminous concrete, $54,492.

Columbiana Co., Sect. "A-1" Lisbon-Canton Rd., 3.922 mi., brick, $164,310, bituminous macadam, asphalt or tar, $126,-307.

Crawford Co., Sect. "M" and "N" Marion-Bucyrus Rd., 6.705 mi., brick, 2 ft. widening, $37,757.

Fayette Co., Sect. "G" Washington C. H.-London Rd., 4.268 mi., waterbound macadam, $90,078, bituminous macadam asphalt or tar, $93,194.

Hamilton Co., Sect. "Z" Glendale-Milford Rd., 1.798 mi., plain concrete, $96,151.

Holmes Co., Sect. "B" Navarre-Berlin Rd., 3.987 mi., plain concrete, $78,642.

Lawrence Co., Sect. "R" Ohio River Rd., 0.676 mi., bituminous macadam asphalt or tar, $17,970.

Lawrence Co., Sect. "O" Ohio River Rd., 1.468 mi. bituminous macadam, asphalt or tar, $35,784.

Licking-Knox Co., Sect. "K" Columbus-Millersburg Rd., 1.42 mi., rein.-con., $44,-736.

Morgan Co., Sect. "C" McConnelsville-Zanesville Rd., 1.8 mi., rein.-con., $62,666.

Pickaway Co., Sect. "F-2" Columbus-Washington C. H. Rd., 0.8 mi. bituminous macadam, asphalt or tar, $22,176.

Pike Co., Sect. "Col" Columbus-Portsmouth Rd., rein.-con., $23,773.

Tuscarawas Co., Sect. "A" Canton-Canal Dover Rd., 3 mi., Kentucky rock asphalt, $91,704, rein.-con., $95,288, bituminous macadam, asphalt or tar, $74,542.

Tuscarawas Co., Sect. "B" Canton-Canal Dover Rd., 2.299 mi., brick, $83,771, rein.-con., $83,279, Kentucky rock asphalt, $70,-083.

Tuscarawas Co., Sect. "E" Canton-Canal Dover Rd., 2.093 mi., Kentucky rock asphalt, $83,444, brick, $96,785.

Tuscarawas Co., Sect. "Mineral City" Canton-Canal Dover Rd., 103 mi., Kentucky rock asphalt, $29,016, brick, $36,315.

Tuscarawas Co., Sect. "P-2" Newcomerstown-Uhrichsville Rd., 1.338 mi., monolithic brick, $53,585, rein.-con., $44,965, Kentucky rock asphalt, $45,965.

Clark Co., Sect. "B" Dayton-Lakeview Rd., 1.545 mi., rein.-con., $45,257, bituminous macadam asphalt or tar, $39,951.

Athens Co., Sect. "L-1" New Lexington-Athens Rd., 2.695 mi., grading and drainage structures, $34,887.

Pickaway Co., Sect. "F-2" Columbus-Washington C. H. Rd., 0.19 mi., bridges and approaches, bituminous macadam asphalt or tar, $43,439.

Lawrence Co., Sect. "M-2" Ohio River Rd., 0.14 mi., bridge, and bituminous macadam, $14,789.

Lawrence Co., Sect. "M-3" Ohio River Rd., bridge and culvert, $3,971.

Hamilton Co., Sect. "Z" Glendale-Milford Rd., drainage structures, $61,619. L. C. Herrick, dir. highways.

O., Columbus—June 27, by W. H. Duffy, dir. Pub. Serv., grading, curbing and paving Bonham Ave. from 9th St. to Cleveland Ave., 825 ft. long, 26 ft. wide, brick, $23,-995, asphalt, $23,995; Fair Ave. from Champion Ave. to Franklin Park West, 2,529 ft. long, 30 ft. wide, asphalt over present surface, $27,737; Lazelle St. from Frankfort St. to Reinhard Ave., 1,280 ft. long, 22 ft. wide, brick, $16,000, asphalt, $14,465; Pine St. from Sycamore to Siebert Sts., 1,679 ft. long, 26 ft. wide, brick, $29,-033, asphalt, $26,373; Parsons Ave. from Livingston Ave. to point 150 ft. north of Kian Ave., 10,540 ft. long, 44 ft. wide, brick, $172,818, asphalt, $163,948; Winthrop Rd. from High St. to Olemtangy Blvd., 1,954 ft. long, 24 ft. wide, asphalt, $35,571, bituminous macadam, $29,948; alley north of Buttles Ave. from alley west of Neil to Harrison Ave., 636 ft. long, 20 ft. wide, brick, $4,943, concrete, $3,924; alley north of Chittenden Ave. from Indianola Ave. to alley west of Summit St., 478 ft. long, 20 ft. wide, brick, $3,749, concrete, $2,951; alley west of Harrison Ave. from 3rd to 4th Aves., 633 ft. long, 20 ft. wide, brick, $5,843, concrete, $4,752; alley north of Mithoff St. from Jaeger to Bruck Sts., 732 ft. long, 18 ft. wide, brick, $5,519, concrete, $4,394.

O., Crestline—June 27, at Mayor's office paving 8,800 sq.yd. Scott and 6,600 sq.yd. South Sts. C. E. Dewald, village clk.

O., Euclid—July 3, grading, curbing and paving Beachview, Cambridge, Elsner and Hawthorne Drives, brick or asphalt, to exceed $25,000; grading and laying concrete or stone sidewalks on Donald Dr., Bliss and Cut Rds., Lake Shore Blvd., Brewer, Arbor, Erieview, Recher, Big Pond and Fuller Aves., North Vine, East 207th, 209th, 210th and East 212th Sts., $75,000. F. A. Fease Eng. Co., Marshall Bldg., Cleveland, engrs.

O., Garfield Heights (Cleveland P. O.)—June 26, grading and paving East 106th St., South Parkway Dr., Homeworth and Summerdale Aves., asphalt or concrete. $25,-000. R. F. Munz, Town Hall, engr.

O., Maple Heights—June 26, grading and paving Clement Dr., Mapleboro Rd., Greenlawn and Raymond Aves., asphalt. To exceed $25,000. C. W. Courtney, Leader News Bldg., Cleveland, engr.

O., St. Clairsville—June 29, by Belmont Co. improving and constructing Martins Ferry-Colerain Rd. L. C. Darrah, Martins Ferry, co. engr.

Michigan—June 27, by State Hy. Dept., Lansing, grading and surfacing 4.56 mi. State Trunk Line Rd. 16-5, Ottawa Co., 240 sta. grading, 48,144 sq.yd. asphalt, concrete or bituminous concrete. L. H. Belknap ch. engr.

Michigan—June 29, by State Hy. Dept., Lansing, grading and surfacing 2.912 mi. Federal Aid Project 75, Sect. B, Jackson Co., 14,148 cu. yd. excav., 34,324 sq. yd. asphalt, concrete or bituminous concrete, State Trunk Line Rd. 11-12, Sect. B, Grand Traverse Co., 6,705 cu. yd. excav., 14,794 sq. yd. asphalt, concrete or bituminous concrete, 6,367 mi. Federal Aid Project 66, Sect. A, St. Joseph Co., 19,053 cu. yd. excav., 68,708 sq. yd. asphalt, concrete or bituminous concrete. L. H. Belknap, ch. engr.

Michigan—June 30, by State Hy. Dept., Lansing, grading and surfacing 2.079 mi. Federal Aid Project 29 B, Calhoun Co., 16,017 cu.yd. excav., 24,286 sq.yd. asphalt, concrete or bituminous concrete, 2.196 mi. State Trunk Line Rd. 22-14, Benzie Co., 11,625 cu.yd. excav., 20,609 sq.yd. gravel; 1.387 mi. State Trunk Line Rd. 35-9, Delta Co., concrete, bituminous concrete or bituminous macadam. L. H. Belknap, ch. engr.

Michigan—July 5, by State Hy. Dept., Lansing, grading and surfacing 2.034 mi. State Trunk Line Rd. 25-14, Sect. A, Alger Co., 8,789 cu.yd. excav., 19,013 sq.yd. bituminous macadam. L. H. Belknap, ch. engr.

Michigan—July 6, by State Hy. Dept., Lansing, grading and surfacing 4.945 mi. State Trunk Line Rd. 12-36, Dickinson Co., incl. 38,577 cu.yd. excav., 46,858 sq.yd. gravel, and 2.564 mi. State Trunk Line Rd. 13-16, Kent Co., 15,491 cu.yd. excav., 27,073 sq.yd. concrete, asphalt or bituminous concrete. L. H. Belknap, ch. engr.

Michigan—July 7, by State Hy. Dept., Lansing, grading and surfacing 2.773 mi. State Trunk Line Rd. 12-29, Gogebic Co., incl. 11,408 cu.yd. excav., 26,824 sq.yd. bituminous macadam. L. H. Belknap, ch. engr.

Michigan—July 11, by State Hy. Dept., Lansing, grading and surfacing 1.241 mi. State Trunk Line Rd. 27-18, Sanilac Co., 3,488 cu.yd. excav., 12,505 sq.yd. asphalt, concrete or bituminous concrete. L. H. Belknap, ch. engr.

Michigan—July 12, by State Hy. Dept., Lansing, grading 9.344 mi. State Trunk Line Rd. 69-4, Baraga Co., 79,603 cu.yd. excav., 50.4 acres clearing. L. H. Belknap, ch. engr.

Mich., Menominee—July 7, by F. S. Norcross, city clk., rein.-con. pavements on various streets, incl. 30,000 sq.yd. pavement, 16,400 lin.ft. curb and gutter, 16,000 sq.ft. concrete sidewalks. T. R. Hasley, city engr. Noted June 15.

Ill., Chicago—June 27, by Bd. Local Impvts., 207 City Hall, paving various streets, $420,000. C. D. Hill, ch. engr.

Wisconsin—June 27, by State Hy. Comn., at div. office 8, 1st Natl. Bank Bldg., Superior, Ashland-Bayfield Rd., Federal Aid Project 290, Ashland Co., incl. 5,000 cu.yd. earth excav., 1,450 cu.yd. borrow, 2,430 cu. yd. gravel surfacing; 4.5 mi. Iron-River-Brule Rd., Federal Aid Project 278, Bayfield Co., 17,805 cu.yd. earth excav., 1,450 cu.yd. borrow, etc. A. R. Hirst, Madison, highway engr.

Wisconsin—June 27, by State Hy. Comn., at div. office 5, Batavian Natl. Bank Bldg., La Crosse, 2.23 mi. Alma-Mondovi Rd., Federal Aid Project 270, Buffalo Co., incl. 3.51 acres grubbing, 18,793 cu.yd. earth and 2,014 cu.yd. solid rock excav., 18,737 cu.yd. borrow, 10,224 ft. piling in Cheese, Factory and Auer Bridges, McGee Bridge at Sta. 252-55, 65 ft. steel plate girder span, 58,000 lb. structural steel, 5,328 cu.yd. shale and 1,200 cu.yd. sand surfacing, etc. A. R. Hirst, Madison, highway engr.

Wis., Elkhorn—July 1, by Walworth Co. Road and Bridge Comn., concrete surfacing Newcomb St. on State Trunk Highway 99, Whitewater City, incl., 2,548 cu.yd. excav., 5,963 sq. yd. 16 ft. concrete surfacing, etc.; State Trunk Highway 89, Franklin St., 979 cu. yd. excav., 3,020 sq. yd. concrete surfacing, 1,910 lin.ft. concrete curb and gutter, State Trunk Highway 89, Janesville St., 3,043 cu.yd. excav., 6,500 sq.yd. concrete surfacing, 4,140 lin.ft. concrete curb and gutter; State Trunk Highway 99, State St., 1,778 cu.yd. excav., 5,996 sq.yd. 18 ft. concrete surfacing, 7,650 lb. reinforcing, 5.5 mi. Whitewater-East Troy Rd., Country Trunk K, 12,651 cu.yd. earth excav., 27,450 cu.yd. gravel surfacing, Wisconsin Highway Comn., 444 Milwaukee St., Milwaukee, engrs.

Wis., Kenosha—June 28, by Bd. Pub. Wks., paving Drew St. from Lyman to Howland Aves., Edward St. from Prairie to Salem Aves., Edward St. from Tanck to Selma Aves., Garden St. from Howland Ave. to Charles St., Tanck Ave. from Howland to Lyman Aves., Congress St. from Strong to Wisconsin Sts., Lyman Ave. from Elizabeth to north of Park St., Fleet St. from Drew to Lester Sts., Pearl St. from Ridge St. to Howland Ave., Huron St. from Elizabeth St. to Salem Ave., Rice Ave. from Grand Ave. to Rice Park subdivision, vitr. vertical fibre brick, sheet asphalt type A, or rein.-con. on 6 in. concrete, combination concrete curb and gutter, P. J. Hurtgen, City Hall, engr.

Wis., Racine—June 27, by Racine Co. State Road and Bridge Comn., concrete surfacing, etc., Dales Crossing-Union Grove Rd., incl., 11,595 cu.yd. earth excav., 33,296 sq.yd. 18 ft. concrete surfacing, 42,452 lb. reinforcing, etc. Wisconsin Highway Comn., 444 Milwaukee St., Milwaukee, engrs.

Wis., West Allis—June 26, by Bd. Pub. Wks., North Gordon Ave. from 45th St. to Lovers Lane, incl., 1,292 sq.yd. concrete or vibrolithic concrete pavement, concrete integral curb, 1,015 sq.yd. asphalt or asphaltic concrete pavement, 1,241 lin.ft. combined curb and gutter; 45th Ave. south of Rogers to North Gordon Ave., 2,701 sq.yd. concrete or vibrolithic, integral curb, 2,353 sq.yd. asphalt or asphalt concrete, 1,567 lin.ft. combined concrete curb and gutter; 48th Ave. from Lipham to National Aves., 5,508 sq.yd. concrete or vibrolithic concrete, integral curb, 4,853 sq.yd. asphalt or asphaltic concrete, 2,945 lin.ft. combined concrete curb and gutter; 50th Ave. from Beloit Rd. to Lincoln Ave., 7,288 sq.yd. concrete or vibrolithic concrete, integral curb, 6,444 sq.yd. asphalt or asphaltic concrete, 3,828 lin.ft. combined concrete curb and gutter; 52nd Ave. from National to Pershing Aves., 3,455 sq.yd. concrete or vibrolithic concrete, integral curb, 3,039 sq.yd. asphalt or asphaltic concrete, 1,915 lin.ft. combined concrete curb and gutter; 54th Ave. from Pershing to Greenfield Aves., 4,073 sq.yd. concrete or vibrolithic concrete, integral curb, 3,550 sq.yd. asphalt or asphaltic concrete, 2,244 lin.ft. combined concrete curb and gutter, 63rd Ave. from Greenfield to Shenners Aves., 4,617 sq.yd. concrete or vibrolithic concrete, integral curb, 4,047 sq.yd. asphalt or asphaltic concrete, 2,565 lin.ft. combined concrete curb and gutter; Scott St., from 74th to 77th Aves., 2,049 sq.yd. concrete or vibrolithic concrete, integral curb, 1,750 sq.yd. asphalt or asphaltic concrete, 1,346 lin.ft. combined concrete curb and gutter. W. Darby, City Hall, engr.

Minn., Duluth—July 10, by St. Louis Co., 11,500 ft. subgrade and culverts on Becks Rd. between Garry St. and State Rd. 2, Co. Job 5-2222. $25,000. R. W. Acton, Court House, co. engr.

Minn., Faribault—July 10, by F. M. Kaisersatt, aud. Rice Co., Job 2109, State Rd. 16, 44,791 cu. yd. gravel surfacing, etc.; Job 2205, State Rd. 26, 78,585 cu. yd. earth, 200 cu. yd. loose rock and 50 cu. yd. solid rock excav., 41,973 cu. yd. overhaul, and culverts; Job. 2206, State Rd. 7, 27,486 cu. yd. excav., 28,956 cu. yd. overhaul and culverts; Job 2207, State Rd. 23, 16,460 cu. yd. excav., 13,600 cu. yd. overhaul and culverts. $50,000. J. C. McElherne, Faribault, engr.

Kan., Hutchinson—July 5, by Bd. Comrs., Reno Co., grading and paving ½ mi. Federal Aid Project 122, 18 ft. bituminous filled brick. $30,000. W. A. Stacey, co. engr.

Kan., Troy—July 7, by Bd. Comrs. Doniphan Co., grading and paving 10.25 mi. Pikes Peak Highway, Federal Aid Projects 87 and 116, 18 ft., concrete, bituminous concrete, bituminous macadam or water bound macadam. $275,000. H. L. Parker, Troy, engr.

Tex., Georgetown—June 29, by L. J. Dimmitt, mayor, paving, asphalt topping, curbing and resetting curb, 2.4 mi. various streets, alternate bids on macadam, gravel and concrete base, and 1½ in. and 2 in. top. $75,000. W. H. Harris, city engr. Noted June 15.

Tex., Gonzales—July 12, by J. C. Romberg, judge Gonzales Co., grading and gravel surfacing 9.27 mi. State Highway

Streets and Roads (Continued)

29. $64,095. C. F. Tom, co. engr. Noted June 8.

Tex., San Angelo—June 30, by J. T. Mathison, judge Tom Green Co., grading, surfacing and topping 15.43 mi. State Highway 4, incl. 1,375 cu.yd. earth, 2,104 cu.yd. loose and 4,207 cu.yd. solid rock excav., 163,965 sq.yd. bituminous macadam, 114,776 gal. asphalt, 5,246 cu.yd. cover material, 20,894 cu.yd. crushed rock, 12,958 cu.yd. gravel, 6,486 cu.yd. sledged stone base, alternate bids on 163,965 sq.yd. ¾ in. rock asphalt. $130,000. G. Gilchrist, San Angelo, engr. in charge.

Tex., Waco—June 28, G. P. Lester, judge McLennan Co., grading and gravel surfacing lateral roads in Rd. Dist. 3, incl., 117,534 cu.yd. roadway excav., 857 cu.yd. concrete, 65,426 lb. reinforcing and 17,850 lb. structural steel, 24,259 cu.yd. gravel surfacing, etc. $150,000. M. Hannah, co. engr.

Wash., Colfax—July 3, by Whitman Co., grading and surfacing 11 mi. State Rd. from Garfield to Palouse. T. M. Meade, Colfax, engr.

Wash., Seattle—June 28, by King Co., paving 4.37 mi. Valley Rd. from Orillia to Kent, 1-course concrete; also 40 ft. concrete bridge. $115,000. T. R. Beeman, 7807 Woodland Park, engr. Noted May 18.

California—July 3, by State Hy. Comn., Sacramento, paving 17.6 mi. various roads Orange Co. near East boundary, 12 mi. concrete paving and 5.6 mi. concrete paving with asphalt surface and concrete shoulders, concrete paving, asphalt surface and concrete shoulders 10.8 mi. various roads in Santa Barbara Co. near Canada de las Llagas Creek. A. B. Fletcher, state highway engr.

Cal., Los Angeles—July 10, by Bd. Supervs. paving 1 mi. Whittier Blvd., concrete and asphalt, ¾ mi. Santa Monica Blvd., macadam.

Cal., Salinas—July 6, by Supervs. Monterey Co., grading 3 mi. Robinson-Canyon Rd., 15,000 cu.yd. excav. H. Cozzens, Salinas, engr.

Cal., San Luis Obispo—July 6, by Supervs. San Luis Obispo Co. improving Sect. C, Pozo Rd., incl., 14,800 cu.yd. excav., 86 cu.yd. Class A concrete in bridges, walls, culverts, etc., 8,000 lb. reinforcing. W. B. Burch, Lowe Bldg., San Luis Obispo, engr.

Cal., Yuba City—July 6, Supervs. Sutter Co. surfacing with E grade asphalt and crushed rock, 5.42 mi. Live Oak-Pennington Rd., $10,000; present oil macadam resurfaced with E grade asphalt and crushed rock on 2.26 mi. Live Oak-Pennington Rd. to Hageman Pl., $6,000. 1.15 mi. Lincoln Lateral, $4,000, 1 mi. Nicolaus Feather River Rd., $2,000, 12.51 mi. Trowbridge to Riego, $20,000; new oil surface of E grade asphalt and crushed rock, 2.12 mi. Oswald Lateral $9,500, 2 mi. O'Banion Corners Lateral, $9,000; all above 15 ft. wide. Total $60,500. O. W. Lanzendorf, Yuba City, engr.

Quebec—July 8, by I. L. Boulanger, deputy minister Dept. Rds., Quebec, graveling 7½ mi. Beauceville-Sherbrooke Highway in St. Victor de Tring Parish. $30,000. M. Necktar, c/o Dept. Rds., engr.

Que., Montreal—June 28, paving 750 ft. Des Arables St., 375 ft. St. Donat St., 375 ft. Monkland St., all asphalt, 65 ft. wide; also 5 ft. cement sidewalks, on 1,875 ft. on Monkland St. from Melrose to Grand Blvd., 375 ft. on Monkland St. from Walkley to Montclair Sts. 1,125 ft. Des Carrieres St., and 375 ft. St. Donat St.

Ontario—July 7, by W. A. McLean, deputy minister of highways, Toronto, 4½ mi. macadam road, Ernesttown Twp.; macadam base course in Leeds Twp., from Gananoque easterly 5¾ mi. and westerly 1½ mi., also from point 5¾ mi. east of Gananoque easterly 5 mi., Leeds and Landsdowne Twps.; 5¾ mi. between Perth and Smiths Falls, North Elmsley Twp.; 6¼ mi. from Carleton Pl., westerly, Ramsey, Lanark and Drummond Twps.; 1½ mi. north of Belleville, Thurlow Twp.; grading and macadam base 2¾ mi. in Mountain View and southerly, Ameliasburg and Sophiaburgs Twps.; concrete abutments and bridge floors, Smiths Creek Bridge, Hope Twp. $75,000. G. Hogarth, ch. engr.

Ont., Fort Frances—June 26, by J. W. Walker, town clk., 10,700 sq.yd. one course concrete pavement, also storm sewers and water connections. $40,000.

Ont., Oakville—June 26, by R. F. Smith, engr., Dundas St., 10,250 sq.yr. concrete pavement on 2nd line of Trafalgar Twp. $40,000.

Ont., Sarnia—June 28, by J. A. Huey, clk. Lambton Co., or G. A. McCubbin, engr., Chatham, 2 mi. concrete pavement in Sombra Twp., for Lambton Co. $50,000.

BIDS RECEIVED

New York—H. S. Sisson, comr. State Hy. Dept., Albany, opened bids June 13, improving (1) 2.29 mi. Rushford-Caneadea Rd., Highway 1606, Allegany Co., (2) 3.44 mi. Watertown-Philadelphia, Parts 1-B and 1-C, Highways 8105 and 5681, Jefferson Co., (3) 4.83 mi. Henrietta Sta., South Arab St., Highway 1639, Monroe Co., (4) 4.94 mi. Cleveland-Vienna, Part 4, Highway 8103, Oneida Co., (5) 5.24 mi. Cleveland-Vienna, Parts 2, 3 and 1, Highways 1620, 8102 and 1629, Oneida and Oswego Counties, (6) 2.3 mi. Syracuse-Otisco, Highway 1619, Onondaga Co., (7) 1.51 mi. New Jersey State Line-Unionville and New Hampton-Denton, Highway 500, Orange Co., (8) 7.73 mi. Raymondville-Massena, Parts 1 and 2, Highways 8100 and 1631, St. Lawrence Co., (9) 6.8 mi. Ovid-Interlaken, Highway 8106, Seneca Co., (10) 2.78 mi. Canisteo-Whitesville, Part 4, Highway 8104, Steuben Co., (11) 5.68 mi. Adamsville-Hartford, Highway 8101, Washington Co., (12) 1.25 mi. Newark Village: West Union, North Main and Van Buren Sts., Highway 5678, Wayne Co., repairing (13) 1.67 mi. Highway 696, Repair Contr. 1350, Cattaraugus Co., (14) 2.45 mi. Highway 5, Repair Contr. 1339, Monroe Co., from Mott-Haven Constr. Corp., New York, (1) $67,606; W. J. Fox, Oramel, (1) $71,249; A. V. Leo Constr. Co., Thompson, Conn., (1) $74,199; F. A. Potter, Utica, (2) $97,931, (4) $119,984, (5) $125,750; Spellman-Oliver Co., Chateaugay, (2) $102,467; C. H. Sage, Batavia, (3) $131,508; Ribstein-Holter Co., Inc., Rochester, (3) $133,668, (4) $134,570, (5) $141,636; G. W. Chambers, 40 Tremont St., Rochester, (3) $134,959, (12) $62,920; Lux & Rauster, Johnstown, (4) $126,685, (5) $132,505; C. H. Van Auken, Thendara, (6) $113,045; Mondo Constr. Co., C. B. Bldg., Syracuse, (6) $118,840; Pinckney & Paddock, Syracuse, (6) $119,643; Adams, Evans & Co., 709 6th Ave., New York, (7) $53,566; Schunnemunk Constr. Co., Highland Mills, (7) $54,542; W. J. Semper, 429 Dimmick St., Watertown, (8) $194,879; H. P. Burgard Co., 4968 Fillmore Ave., Buffalo, (8) $212,284; E. W. Foley Contg. Corp., 1 East Main St., Waterloo, (9) $204,435, (12) $59,475; Cleveland & Sons Co., Brockport, (9) $217,099, (12) $58,060; M. C. Soper, 98 Cayagua St., Seneca Falls, (9) $218,516; L. Dennison, 162 North Main St., Hornell, (10) $89,873; Greenfield Constr. Co., 89 Main St., Hornell, (10) $89,877; Wing & Munger, Holley, (10) $94,619; Gifford Constr. Co., Jamaica, (11) $175,949; F. G. Fowler Constr. Co., Mt. Kisco, (11) $184,578; H. J. Bromley, Hudson Falls, (11) $185,368; W. L. Collins, Hornell, (13) $23,483; Gould & Kranz, Brooklyn, (13) $25,148; Cold Spring Constr. Co., Buffalo, (13) $25,500; Dale Eng. Co., Mann Bldg., Utica, (14) $48,236; Whitmore, Rauber & Vicinius, Inc., 279 South Ave., Rochester, (14) $47,379. Noted May 25.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids June 16, curbing and paving Coney Island Ave., from Soviero & Britton, 10111 114th St., Richmond Hill, $81,437; E. F. Monahan, $83,309; Casalino Contg. Co., 217 Havermeyer St., $83,585 Noted June 8.

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, opened bids June 14, resurfacing (1) Canarsie Lane, (2) Gravesend Neck Rd., (3) Ave. U, etc., from C. Gallagher, 745 Dean St., (1) $16,985, (2) $17,716; Soviero & Britton, (1) $17,121, (2) $17,011, (3) $64,627; J. J. Guinan Contg. Co., 2314 Gravesend Ave., (1) $18,128, (3) $64,146; Murphy Bros., 262 Bay 43rd St., (2) $16,446; E. F. Monahan, 1921 Morris Ave., New York, (3) $67,840. Noted June 8.

N. Y., Brooklyn—Dept. Parks, Municipal Bldg., opened bids June 15, improving South Lake Dr., Prospect Park, here, from Cleveland Trinidad Paving Co., Flushing, $54,879; Borough Asphalt Co., 1301 Metropolitan Ave., $59,685; Uvalde Asphalt Paving Co., 1 Bway., New York, $60,361. Noted June 8.

N. Y., St. George—M. J. Cahill, pres. Richmond Boro, Boro Hall, opened bids June 14, repaving roadway of Bradley Ave., etc., from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, $68,095; W. P. McDonald Constr. Co., 342 Madison Ave., New York, $71,842; J. Johnson Sons, 455 Bway., West New Brighton, $98,005. Noted June 8.

Florida—State Rd. Dept., Tallahassee, hard surfacing road between Putnam Co. line and De Leon Springs, from Barber-Fortin Co., Gainesville, $395,102; J. F. Morgan Paving Co., Woodward Bldg., Birmingham, Ala., $405,082; Maule Paving Co., Ojus, $358,195. Noted June 1.

Ohio—Dept. Highways and Pub. Wks., Columbus, opened bids June 16, grading, bridging and paving roads with (a) asphaltic macadam oil, (b) tar macadam, (c) rein.-con., (d) brick, (e) monolithic brick, (f) bitulithic, (g) bitoslag, (h) plain concrete, (i) semi-monolithic brick, (j) bituminous concrete in following counties: Allen Co., Sect. "L" Lima-Sandusky Rd., 3.119 mi., from L. L. Clymer, Bluffton, (a) $65,844, (b) $65,844, (d) $104,403; Acton Bros., Vaughnsville, (a) $68,568, (b) $67,919, (c) $93,685, (d) $105,851; F. F. Walton, Upper Sandusky, (a) $75,062, (b) $75,062, (d) $106,534. Ashtabula Co., Sects. "I" and "H" Youngstown-Conneaut Rd., 6.992 mi., from M. C. Miller, 314 East Northwood Ave., Columbus, (a) $159,443, (b) $159,443; E. J. Inman, Ashtabula, (b) $154,852; Fitzgerald Constr. Co., Ashtabula, (b) $157,486. Ashtabula Co., Sect. "C-1" Painesville-Warren Rd., 10.297 mi., from Turner Contg., Park Theatre Bldg., Youngstown, (c) $250,201, (e) $277,771. Dark Co., Sect. 'E" Dayton-Greenville Rd., 4.491 mi., from E. and G. Alexander, North Star, (c) $121,388; Radebaugh-Graham Co., Columbus, (c) $214,551. Hamilton Co., Sect. "A-2" Cincinnati-Brookville Rd., 4.075 mi., from Hinkle & Sullivan, 105 Bell Blk., Cincinnati, (f) $274,591, (g) $277,021; Pub. Wks. Constr. Co., 57 Wiggins Blk., Cincinnati, (f) $278,802, (g) $278,802, (h) $193,427; Murdock Constr. Co, Norwood, (f) $288,833; Gradison Constr. Co., Columbus, (h) $181,335; C. Bird, Springfield, (h) $186,193; P. Drake & Sons, Marion, (i) $308,841; J. M. Quill Constr. Co., 1737 Madison Rd., W. H., Cincinnati, (i) $309,534; Scully Bros., Cincinnati, (i) $309,757. Hancock Co., Sect. "A-2," "B-1" and "B-2" Ottawa-Findlay Rd., 3.07 mi., from Thompson-O'Roark Co., Toledo, (j) $91,096; Smith Constr Co., Youngstown, (j) $91,697; A. G. Pugh, Columbus, (j) $94,701; Pettibone & Graves, Lakeside, (c) $78,200; Dorsey Constr. Co., Findlay, (c) $79,447; Central Paving Co., Hamilton, (c) $79,361. Portage Co., Sect. "D" Aurora-Warren Rd., 3.593 mi., from Pettibone & Graves, Lakeside, (c) $106,000; A. W. Marrette, Akron, (c) $106,460. Trumbull Co., Sect. "A-3" Canfield-Niles Rd., 0.26 mi., from Sterling Constr. Co., Akron, (d) $10,581; J. DeJute, Niles, (d) $11,418; De-Oro & Colucci, Youngstown, (d) $12,648. Union Co., Sect. "F" and "Marysville" Marysville-Bellefontaine Rd., 0.597 mi., from M. B. Koffroth, Richwood, (j) $12,720; C. O. Hurd & Son, Marysville, (j) $13,442. O. Johnson, West Mansfield, (j) $13,975. Fayette Co., Sect. "K" Hillsboro-Washington C. H. Rd., constructing bridge, from Middle States Constr. Co., 524 East Hudson St., Columbus, $9,780; Champion Bridge Co., Wilmington, $10,502; F. F. Walton, Upper Sandusky, $10,597. Noted June 8.

O., Akron—S. Porter, clk. Summit Co. opened bids June 14, grading with (a) concrete, (b) brick, (c) bituminous concrete (1) 0.96 mi. Kenmore-Mogadore Rd. 44, Sect. D, (2) 1.019 mi. Cuyahoga Falls-Middlebury Rd. 82, (3) 2.099 mi. Tallmadge Ave., (4) 2.24 mi. Portage Lakes Dr., from T. E. McShaffrey Constr. Co., 171 South Forge St., (1b) $43,302. (1c) $34,658, (2b) $39,668; (4b) $65,875; H. Gilbert, Akron, (1c) $36,706, (2b) $40,053, (3b) $83,843, (3c) $72,365; Hollinger & Davidson, South Bway., (1b) $44,106; E. and W. McShaffrey, Rhoades Ave., (2b) $40,085; Dorris Constr. Co., Akron, (3a) $70,182; Carey & Nulson, Akron, (4a) $69,595, (4b) $70,320. Noted June 8.

Mich., Detroit—Grading and paving following alleys with one course concrete: (1) 1472, (2) 1473, (3) 1474, (4) 1475, (5) 1476, (6) 1477, (7) 1478, (8) 1479, (9) 1480, (10) 1481, (11) 1482, (12) 1483, from T. E. Currie, 20 McGraw Bldg., (1) $4,097, (8) $5,539, (9) $2,519, (10) $4,325. (11) $3,291, (12) $3,218; Otis Cement Constr. Co., 806 Hammond Bldg., (1) $4,144, (2) $3,191, (3) $2,099, (5) $1,567, (6) $3,063, (7) $5,264, (8) $5,685, (9) $2,424, (10) $4,437, (11) $3,375, (12) $3,326; R. J. Powelson Co., 6445 Iroquois Ave., (1) $3,867, (5) $1,597, (6) $2,980, (7) $5,182, (8) $5,793, (9) $2,375, (10) $4,437, (11) $3,375, (12) $3,326; J. Porath, 34 McGraw Bldg., (2) $3,169, (3) $2,085, (4) $938, (6) $3,053, (7) $5,250; G. Nunn, 6409 3rd. St., (3) $2,124, (4) $960; Mincli & Zanni, Detroit, (4) $953, (5) $1,516.

Wisconsin—State Hy. Dept., Madison, Darlington-Mineral Point Rd., Federal Aid Project 311, Lafayette Co., (a) 9,980 cu. yd. earth excav., (b) 174.31 cu.yd. concrete, (c) 106.7 cu.yd. concrete in bridges, (d) 2,841 cu.yd. crushed rock surfacing, from W. McGavock, Beloit, (a) $0.40, (b) $19, (c) $21, (d) $2.10, total $23,019; S. J. Groves & Sons, Glove Bldg., Minneapolis, Minn., (a) $0.32, (b) $19, (c) $21, (d) $2.80, total $24,317.

Streets and Roads (Continued)

Missouri—State Hy. Dept. at div. office New London, opened bids May 25, 3.829 mi. East and West State Rd., State Aid Project 20.168, Ralls Co., (1) 20,222 lin.ft. grading, (2) 18,773 sq.yd. broken stone base course, (3) 18,773 sq.yd. waterbound macadam surface course, (4) 12,883 sq.yd. gravel surfacing, from C. P. O'Reilley & Co., St. Louis, (1) $0.12, (2) $0.55, (3) $0.30, (4) $0.50, total $24,826; W. A. Ross, Kansas City, (1) $0.15, (2) $0.65, (3) $0.40, (4) $0.55, $29,831; Cameron-Joyce & Co., Keokuk, Ia., (1) $0.25, (2) $0.81, (3) $0.69, (4) $0.465, $39,206. Noted May 18.

Tex., Dallas—Dallas Co. grading, scarifying, reshaping and surfacing 19 mi. Seagoville Rd., 57,000 sq.yd. surfacing, 60 cu.yd. concrete, 17,300 cu.yd. native stone 13,200 cu.yd. gravel, 7,000 lb. reinforcing and 5,000 lb. structural steel, 45,000 cu.yd. crushed stone, from Scarbrough & Davis, 100 Gaston Bldg., $164,938; Wear & Thomas, Rogers, $165,354; McCall-Moore Eng. Co., Amicable Bldg., Waco, $173,481. Noted May 18.

Tex., McKinney—Collin Co. grading and surfacing (1) 10.2 mi. State Highway 5-A in Farmersville Rd. Dist., (2) 4.84 mi. State Highway 5-A in Lavon Rd. Dist., (3) 12.4 mi. State Highway 5-A in Blue Ridge Rd. Dist., (4) 3.72 mi. State Highway 5-A in the Copeville Dist., (5) 6.57 mi. State Highway 5-A in Wylie Rd. Dist., from Tibbetts Constr. Co., 209½ West 8th St., Ft. Worth, (1) $103,887, (2) $64,757, (3) $117,821, (4) $38,708, (5) $59,957; Austin Bros. Bridge Co., Coombs St., Dallas, (1) $106,569; Wear & Thomas, Rogers, (1) $107,141, (3) $122,162; F. P. McElwrath Corsicana, (2) $64,465, (5) $61,755; McCoy & Richards, Arlington, (2) $64,685, (4) $39,001, (5) $58,741; McCollum & Purvis, 1507 F & M Bldg., Ft. Worth, (3) $114,859, (4) $40,083.

Cal., National City—Concrete paving various streets, from Fairchild-Gilmore-Wilton, Los Angeles Ry. Bldg., Los Angeles, $27,590.

CONTRACTS AWARDED

New Hampshire—State Hy. Dept., Concord, paving 3 mi. State Project 141, in Fitzwilliam, bituminous macadam, to R. H. Newell Co., Uxbridge, Mass., $76,090; 1.5 mi. State Projects 140-146, in Boscawen, modified asphalt and .73 mi. State Project 138, in Concord and Pembroke, waterbound macadam, to Colburn Constr. Co., Concord, $16,767 and $35,383 respectively; 1½ mi. State Project 139, in Franklin and Tilton, modified asphalt, to Winslow & Cummings, Nashua, $17,393. Noted June 15.

Mass., Great Barrington—Paving Main St., 10,590 sq.yd. concrete, 1,200 cu.yd. earth and 10 cu.yd. rock excav., to C. B. Luidholm, 24 North St., Pittsfield, $2.40 per sq.yd.

Mass., Lee—State Hy. Dept., Boston, building 13,700 ft. Pittsfield-Springfield Rd. in Lee, 7,850 sq.yd. concrete, 13,790 cu.yd. earth excav., to C. E. Horne, North Main St., Millbury, $143,139.

Mass., Pittsfield—Paving 1 mi. East St., vitr. brick on concrete, to C. B. Luidholm, 24 North St., $65,929.

N. Y., Albany—Bd. Contract & Supply, to W. F. Campion, 223 North Pearl St., laying concrete walks on Myrtle Ave., $2,219, improving Beverly Ave., $13,345, Twiller St., $8,926, Clinton Ave., $10,480, Marshall St., $5,880, Ridgefield St., $14,471; to J. J. Keegan, 121 North Pearl St., constructing sewer in Dove St. alley, $1,155, Yates St., $1,022, Western Ave. $575.

N. Y., Brooklyn—Park Bd. at office Dept. Parks, Municipal Bldg., New York, improving East Lake Dr., Prospect Park, etc., here, to Cranford Co., 52 9th St., $49,641. Noted June 15.

N. Y., Johnson City—Paving Grand Ave., brick, to C. W. Rose, Binghamton, $23,928. Noted May 18.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., grading and paving 38th Ave., to Soviero & Britton, 10111 114th St., Richmond Hill, $4,190; repaving Seaview Ave., to Necaro Co., Inc., 97 Court St., Brooklyn, $78,915; Rockaway Plank Rd., to Sicilian Asphalt Paving Co., 41 Park Row, New York, $126,013. Noted June 8.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., repaving 71st and West 120th Sts., to Brusstar Constr. Co., Harlem River and 150th St., $12,048 and $14,363 respectively; East 30th St., to Cleveland Trinidad Paving Co., Flushing, $9,190. Noted June 15.

N. Y., Penn Yan—Paving Liberty St., metropolitan brick, to C. N. Kelly, Penn Yan, $30,295. Noted June 15.

N. Y., Rochester—Bd. Contract & Supply, paving Allendale St. and resurfacing Beverly St., to T. Holohan, Rochester, $16,655 and $4,932 respectively; paving Bliele Terrace, to Ribstein-Holter Co., Rochester, $6,768; Tonawanda St. and Washburn Park also resurfacing Anson Pl. and Arvine Heights, to Whitmore, Rauber & Vicinius, 279 South Ave., $10,110, $6,341, $4,625 and $14,712 respectively, all foregoing asphalt; cement walks on Stanton St., to P. Petrossi, Rochester, $2,951; laying water pipe, to A. Petrossi, Rochester, $1,704. Noted June 15.

N. Y., Syracuse—Paving Burnet Ave. from North Crouse to Beech Sts., vitr. brick, to C. T. Hookway, Bastable Bldg., $37,722.

N. J., Ridgefield Park—Bd. Village Comrs., 234 Main St., improving Elm, Cedar and 2nd Sts., to G. Dinopoli, Inc., 18 Lodi St., Hackensack, $39,952. Noted May 11.

Pa., Butler—Grading, paving and curbing 900 ft. North Elm and North Monroe Sts., incl. 2,000 sq.yd. vitr. brick, 1,800 lin.ft. concrete curb, to Carson Eng. Co., Butler, $29,348.

Pa., Ebensburg—Supervs. West Carrol Twp., c/o Controller Cambria Co., reconstructing 8,135 lin.ft. Bakerton Rd., to Gifford & Pritchard, Philipsburg, $79,558. Noted May 25.

Pa., Johnstown—Grading Wonder St. from Sta. 36 to city line, to Trevorrow-Crissey Constr. Co., Johnstown. Engr. est. $25,000.

Pa., Pittsburgh—Paving and improving Gerber Ave., Winterburn, Winslow and Pemberton Sts., to Booth & Flinn Ltd., Forbes St., $41,959; Willston Way, Bader, Damas, Geneva and Simple Sts., to Duilis-Benintend Co., West Liberty Ave., $26,076.

West Virginia—State Rd. Dept., Charleston, improving 2.23 mi. Cairo-Shields Hill Rd., Project 3115, Ritchie Co., 11,800 lin. ft. clearing, 9,500 cu.yd. common, 115 cu.yd. wet, 450 cu.yd. dry and 2800 cu.yd. borrow excav., 225 cu.yd. concrete, 3,600 lb. reinforcing, 1,090 lin.ft. 15-18 in. rein.-con. pipe, 4,300 cu.yd. one course cement concrete pavement, etc., to W. A. Wilson & Sons, St. Marys, $69,390; 3.58 mi. Romney-Mechanicsburg Gap Rd., Project 3011 A, Hampshire Co., 18,890 lin.ft. clearing, 16,000 cu. yd. common and 6,000 cu.yd. borrow excav.; 800 sta.yd. overhaul, 180 cu.yd. concrete, 1,200 lb. reinforcing, 11,200 cu.yd. gravel surface course, etc., to Monongahela Constr. Co., Fairmont, $49,637; 1 mi. road from East Stubenville towards Hollidays Cove, Project 3114, Brooke Co., 5,280 lin. ft. clearing, 2,970 cu.yd. common and 800 cu.yd. dry excav., 1,700 lb. reinforcing, 4,680 lin.ft. plain concrete curb, 1,650 cu.yd. broken slag base, 1,750 cu.yd. one course cement concrete pavement, 50,193 lb. metal reinforcement for cement pavement, 1,070 sq.yd. waterbound slag macadam surface course, etc., to B. C. Stringer & Co., Rayland, O., $43,894; 3 mi. Littleton-Hundred Rd., Project 3117, Wetzel Co., 15,900 lin.ft. clearing, 49,000 cu.yd. common and 630 cu. yd. dry excav., 305 cu.yd. concrete, 6,500 lb. reinforcing, 1,082 lin.ft. 15-24 in. rein.-con. pipe, 6,500 cu.yd. Telford base, 29,150 sq.yd. bituminous macadam surface, 73,000 gal. material for penetration macadam (oil or Bermudez asphalt), etc., to B. M. Chaplin Co., Morgantown, $112,014, 1.9 mi. Harpers Ferry-Bolivar Rd., Project 3034, Jefferson Co., 9,624 lin.ft. clearing, 3,600 cu.yd. common excav., 270 cu.yd. concrete, 4,300 lb. reinforcing, 3,400 cu.yd. one course cement concrete pavement, etc., to H. C. Brooks Co., Inc., Martinsburg, $53,396; 5.11 mi. Ansted-Falls Dist. Line Rd., Project 3038, Fayette Co., 28,000 lin.ft. clearing, 63,300 cu.yd. common, 1,000 cu.yd. wet, 330 cu. yd. dry and 1,000 cu.yd. borrow excav., 15,000 sta.yd. overhaul, 260 cu.yd. concrete, 28,500 lb. reinforcing, 1807 lin.ft. 18 in. citr. clay pipe, etc., to Waugh Bros. & Vicillo, St. Albans, $90,407; 11.3 mi. Mary Taylor-Island Creek Rd., Project 3119, Mingo Co., 59,800 lin.ft. clearing, 142,000 cu.yd. common, 300 cu.yd. wet, 3,500 cu.yd. dry and 20,000 cu.yd. borrow excav., 1,500 cu.yd. concrete, 54,000 lb. reinforcing, 4,220 lin.ft. 15-24 in. vitr. clay pipe, 500 cu.yd. loose gravel, 500 cu.yd. stone sub-base, 23,400 cu.yd. gravel surfacing, etc., to Beckwith White & Co., Roanoke, Va., $211,654; 2.75 mi. Spencer-Reedy Rd., Project 3069, Roane Co., 14,500 lin.ft. clearing, 22,500 cu.yd. common and 250 cu.yd. borrow excav., 860 cu.yd. concrete, 10,700 lb. reinforcing, 1,044 lin.ft. 15-18 in. rein.-con. pipe, 1,300 cu.yd. one course cement concrete pavement, etc., to P. F. Cottle, Spencer, $46,968; 5.34 mi. Sutton-Gassaway Rd., Project 3110, Braxton Co., 28,200 lin.ft. clearing, 130,000 cu. yd. common, 100 cu.yd. wet, 1,000 cu.yd. dry and 2,000 cu.yd. borrow excav., 1,000 sta.yd. overhaul, 575 cu.yd. concrete, 5,125 lb. reinforcing, 3,160 lin.ft. 18-42 in. rein.-con. pipe, etc., to Langhorn & Langhorn, 1st Natl. Bank Bldg., Huntington, $[illegible]; 0.46 mi. Projects 1128 and 74 [illegible] to Mink Shoals, Kanawha Co., 10,850 cu.yd. excav., 625 lb. reinforcing, etc., to Brown & Floyd, 70 Lowenstein Bldg., Charleston, $10,332; 5 mi. Weston-Jane Lew Rd., Project 3022, Lewis Co., 28,700 lin.ft. clearing, 80,000 cu.yd. common, 100 cu.yd. wet, 800 cu.yd. dry and 1,000 cu.yd. borrow excav., 150,000 sta.yd. overhaul, 540 cu.yd. concrete, 13,365 lb. reinforcing, 1,[illegible] lin. ft. 18-36 in. rein.-con. pipe, 1,387 cu.yd. broken stone base, 9,125 cu.yd. one course cement concrete, 6,240 sq.yd. bituminous macadam surface, 15,600 gal. bituminous material for penetration macadam, etc., to Seiple-Wolfe Constr. Co., Youngstown, O., $241,808; 4.33 mi. Evans-Cottageville Rd., Project 3074, Jackson Co., 22,850 lin.ft. clearing, 40,600 cu.yd. common, 515 cu.yd. dry and 2,100 cu.yd. borrow excav., 101 cu. yd. concrete, 5,500 lb. reinforcing, 1,128 lin. ft. 15-24 in. rein.-con. pipe, etc., to C. E. Price, Huntington, $33,005; 7.31 mi. Clothier-Blair Rd., Project 3059, Logan Co., 36,100 lin.ft. clearing, 125,000 cu.yd. common, 3,000 cu.yd. dry and 18,000 cu.yd. borrow excav., 960 cu.yd. concrete, 15,000 sta. yd. overhaul, 27,000 lb. reinforcing, etc., to Baxley Bros. Co., Huntington, $128,200; 4.7 mi. Franklin-Petersburg Rd., Projects 3105 and 3103, Pendleton Co., 19,540 lin.ft. clearing, 20,300 cu.yd. excav., 255 cu.yd. concrete, 1,410 lb. reinforcing, 11,050 cu.yd. gravel surface course, etc., to Souder Constr. Co., Woolworth Bldg., Lancaster, Pr., $40,365; 2 mi. Buckhannon-Weston Rd., Project 3024, Upshur Co., 10,721 lin. ft. clearing, 10,300 cu.yd. common and 500 cu.yd. borrow excav., 1,000 sta.yd. overhaul, 228 cu.yd. concrete, 6,298 lb. reinforcing, 3,880 cu.yd. one course cement concrete pavement, etc., to W. J. and J. T. Gephart, Linden St., Williamsport, Pa., $65,765; 1.8 mi. Salem-Bristol Rd., Project 3123, Harrison Co., 9,600 lin.ft. clearing, 6,000 cu.yd. common, 100 cu.yd. wet, 400 cu.yd. dry and 500 cu.yd. borrow excav., 1,000 sta.yd overhaul, 435 cu.yd. concrete, 21,626 lb. reinforcing, 4,400 cu.yd. one course cement concrete pavement, etc., to Colonial Constr. Co., Wabash Bldg., Pittsburgh, Pa., $66,744; 4.9 mi. Winchester Pike, Project 115, Berkeley Co., 25,738 lin.ft. clearing, 11,900 cu.yd. common and 1,560 cu.yd. borrow excav., 130 cu.yd. concrete, 109,200 sta.yd. overhaul, 2,300 lb. reinforcing, 8,400 cu.yd. broken stone base, 51,480 sq.yd. bituminous concrete surface, etc., to P. Flannagan & Sons, Hartford Rd. and Baltimore and Ohio R.R., Baltimore, Md., $106,000; 3.56 mi. Harrison Co. line-West Rd., Project 3020, Doddridge Co., 18,800 lin.ft. clearing, 20,000 cu.yd. common, 100 cu.yd. wet, 500 cu.yd. dry and 2,000 cu.yd. borrow excav., 1,000 sta.yd. overhaul, 386 cu.yd. concrete, 13,237 lb. reinforcing, 1,158 lin.ft. 18-36 in. rein.-con. pipe, 6,800 cu.yd. one course cement concrete, etc., 3 mi. Grafton-Clarksburg Rd., Project 3025, Taylor Co., 16,150 lin.ft. clearing, 20,000 cu.yd. common, 100 cu.yd. wet, 400 cu.yd. dry and 1,000 cu.yd. borrow, 1,000 sta.yd. overhaul, 390 cu.yd. concrete, 8,067 lb. reinforcing, 1,300 lin.ft. 18-36 in. rein.-con. pipe, 7,454 cu.yd. one course plain cement concrete, etc., to Kennedy Constr. Co., Parkersburg, $115,420 and $123,388 respectively; 5.7 mi. Elkins-Parsons Rd., Project 3029, Tucker Co., 29,800 lin.ft. clearing, 66,000 cu.yd. common, 2,100 cu.yd. dry and 1,060 cu.yd. borrow excav., 32,000 sta.yd. overhaul, 560 cu.yd. concrete, 6,100 lb. reinforcing, 2,65 lin.ft. 15-18 in. rein.-con. pipe, 19,130 lin.ft. wire rope guard rail, etc., 5.09 mi. Ripley-Charleston Rd., Project 3075, Jackson Co., 26,800 lin.ft. clearing, 23,900 cu.yd. excav., 630 cu.yd. concrete, 16,780 lb. reinforcing, 1,460 lin.ft. 15-24 in. rein.-con. pipe, etc., 2.5 mi. Waynesburg-Pike, Project 3141, Marshall Co., 1,000 cu.yd. borrow excav., 4,775 cu.yd. one course cement concrete, to Keeley Constr. Co., Clarksburg, $74,865, $36,607 and $65,879 respectively. Noted May 18.

W. Va., Romney—Comrs. Hampshire Co., grading and gravel surfacing 3.8 mi. Rd. Project 72, to H. W. Kaylor, Cumberland, Md., $52,854. Noted May 25.

W. Va., Wheeling—Improving Edgington Lane, 10th, 14th, Eoff, Maryland, Indiana and Dimmeydale Sts., to P. J. Gilligan Co., 94 14th St., $85,503.

W. Va., Wheeling—Improving Main, West, 4th, Coal, Garden Court, North Penn, Vista and Prospective Sts., to H. L. Seabright, 70 43rd St., $35,958.

North Carolina—State Hy. Dept., Raleigh, clearing, grading and topsoiling State Project 316, Brunswick Co., to B. F. Price, Mullins, $47,393. Noted June 8.

N. C., Troy—Comrs. Montgomery Co., constructing 12 mi. road from here to Pekin, to J. F. Mulligan Constr. Co., North Wilkesboro, $31,000. Noted May 4.

Streets and Roads (Continued)

Fla., Bushnell—Paving various streets to Finley-Method Co., 825 Graham Bldg., Jacksonville, $24,000. Noted May 11.

Fla., Lake Worth—Grading, paving and oiling P St. from 17th to 20th Sts., 2nd St. from H to O Sts., 8th St. from Dixie Highway to Q Sts., 12th St. from A to F Sts., J St. from 6th St. to Dixie Highway, D St. from 10th St. to Lake Ave., C St. from Lake Ave. to 13th Sts., L St. from 4th St. to Dixie Highway, 5th St. from N to O Sts., to Maule Paving Co., West Palm Beach.

Fla., Pensacola—Comrs. Escambia Co., constructing 2½ mi. Pensacola-Nunez Ferry Rd., Project 4, to J. Gerkins, 800 North Hayne St., $48,226; 4.5 mi. Pensacola-Pomington Rd., Projects 5 and 6, to J. S. Holloway Constr. Co., Hattiesburg, Miss., $94,838 and $14,433 respectively. Noted May 18.

Ohio—Dept. Highways and Pub. Wks., Columbus, grading, bridging and paving roads in following counties: Belmont Co., Sect. "G" Barnesville-Woodsfield Rd., 2.254 mi., tar macadam, to Chalfont Constr. Co., Barnesville, $74,605. Belmont Co., Sect. "G-1" Barnesville-Woodsfield Rd., 3.462 mi., tar macadam, to Tri-State Constr. Co., Youngstown, $81,580. Cuyahoga Co., Sect. "Rocky River" Cleveland-Sandusky Rd., 2.014 mi., bituminous concrete, to Highway Constr. Co., 903 Lorain Co. Block Bldg., Elyria, $113,110. Hamilton Co., Sect. "B" and "Sharonville" Columbus-Cincinnati Rd., 2.003 mi., bitulithic, to Hinkle & Sullivan, 105 Bell Blk., Cincinnati, $106,795. Hamilton Co., Sect. "A" Cincinnati-Zanesville Rd., 2.999 mi., plain concrete, to Bigler Bros., Middleton, $117,766. Marion Co., Sect. "C" McConnelsville-Zanesville Rd., 1.8 mi., lake asphaltic macadam, to H. P. Streicher Co., 319 Terminal Bldg., Toledo, $52,854. Noble Co., Sect. "N" Cambridge-Caldwell Rd., 3.594 mi., state to furnish brick, to McElfresh Co., Caldwell, $74,447. Summit Co., Sect. "N-2" Cleveland-Massillon Rd., 3.494 mi., brick, to W. E. Burk & Son, Akron, $140,219. Summit Co., Sect. "O" Cleveland-Massillon Rd., 0.93 mi., brick, to W. E. Burk & Son, Akron, $34,440. Summit Co., Sect. "Clinton" Cleveland-Massillon Rd., 0.58 mi., brick, to W. E. Burk & Son, Akron, $26,219. Mahoning Co., Sect. "D" Akron-Youngstown Rd., 0.99 mi., resurfacing with brick, to H. Gilbert, East Akron, $26,990. Noted June 15.

O., Akron—Grading, paving and laying sidewalks on Beacon St., 660 sq.yd. Hillside vitr. brick, 2,800 sq.yd. Texaco asphalt, etc., to T. E. McShaffrey Constr. Co., South Forge St., $20,032, engrs. est. $23,170; grading, cindering and laying sidewalks on Bittacker St., 18,290 sq.ft. 4 in. cement sidewalk, 6,500 cu.yd. earth excav., 800 cu.yd. cinders, to M. Kalain, Akron, $7,035, engrs. est. $9,450; Central Way, Zeller, Montrose and Lookout Aves., 33,560 sq.ft. 4-in. cement sidewalk, 9,200 cu.yd. earth excav., 1,920 cu.yd. cinders, etc., to S. F. Baker, R. F. D. Akron, $13,033, engrs. est. $16,079.

O., Akron—E. A. Zeisloft, dir. Pub. Serv., to McAlonan Bros., West Buchtel Ave., improving West Thornton St. from Manchester to East Sts., 1,600 cu.yd. grading $0.50 per cu.yd., 1,110 sq.yd. brick (cement filler), $2.10, etc., total, $7,991, Hillsdale Ave. from Aqueduct St. to Merriman Rd., 2,150 cu.yd. grading $0.50, 2,000 sq.yd. brick (asphalt filler), $2.20, $12,114; to Di Foti Constr. Co., Akron, Chalker St. from Mildred to Iuka Aves. and Salome Ave. from Chalker to Avon Sts., 6,900 cu.yd. grading $0.35, etc., $5,432, Woodward, Oakland and Mildred Aves., 4,100 cu.yd. grading, $0.30, etc., $6,726; to Columbus Asphalt Paving Co., Buckeye Bldg., Aqueduct St., 8,000 cu.yd. grading $0.60, 6,730 sq.yd. sheet asphalt, Plan B (Mexican) $1.65, etc., $36,592. Noted June 15.

O., Cleveland—Paving Lorain Ave., West 57th, 58th and 59th Sts., to Roehl Bros., West 25th St. and Clark Ave., $39,327. Noted June 8.

O., Cleveland Heights (Warrensville P. O.)—Grading, curbing, paving and repaving Noble Pl., Cumberland and Fairfax Rds., to Baldwin Bros., 4500 Euclid Ave., Cleveland, $85,961; Coventry and Mayfield Rds., to Cleveland Trinidad Paving Co., The Arcade, Cleveland, $103,445; Edendale Ave., to Rieley Bros., The Arcade, Cleveland, $8,208. Noted June 15.

O., Columbus—W. H. Duffy, dir. Pub. Serv. to Franklin Asphalt Paving Co., 209 South High St., grading, laying water mains, curbing and paving Bruck St., $44,884, Columbus St., $4,709, both asphalt; to R. J. Dienst, 68 South Harris Ave., Chase Ave., $10,038, Dell Ave., $6,295, both brick, Pearl St., $5,390, alley north of 11th Ave., $3,363, both concrete; to B. F. Patterson, Columbus, setting back curb, relocating fire hydrants, etc., on Goodale St., asphalt, $41,088. Noted June 8.

O., Covington—Grading, curbing and paving 20,000 sq.yd. High St., to J. M. Hennessy & Bro., Piqua, $90,000.

O., Lakewood (Cleveland P. O.)—Paving Lakewood Heights Blvd., to Highway Constr. Co., Elyria Blk., Elyria, $72,228. Noted June 15.

Michigan—State Hy. Dept., Lansing, grading and surfacing 12.169 mi. State Trunk Line Rd. 24-22, Midland Co., to Midland Co. Rd. Comn., Midland, $155,557. Noted May 11.

Michigan—State Hy. Dept., Lansing, grading and surfacing 6.015 mi. State Trunk Line Rd. 20-12, Sect. B, Isabella Co., to C. Reger, Clare, incl. 21,143 cu.yd. excav., $0.30, 76.6 cu.yd. 1:2:4 concrete, $14.50, 11.8 cu.yd. 1:3:6 concrete, $14, 57,309 sq. yd. gravel, $0.71, total $58,188. Noted May 11.

Michigan—State Hy. Dept., Lansing, grading and surfacing State Trunk Line Rd. 65-4, Livingston Co., 4.218 mi. Sect. A, to Gohr Bros. Contg. Co., 310 South Capitol St., Lansing, $31,066, 3.742 mi. Sect. B, to Reading Corp., 413 West Fort St., Detroit, $29,227; 5.147 mi. Federal Aid Project 83, Bay Co., to Galamo Constr. Co., Bay City, $109,975; 4.535 mi. Federal Aid Project 63, Sect. A, Bay Co., to J. V. McKeon & Co., Bay City, $94,899; 6.091 mi. State Trunk Line Rd. 20-4, Lake Co., to J. W. Patterson, Reed City, $36,777; 1.263 mi. State Trunk Line Rd. 13-21, Kent Co., to Vander Veen Constr. Co., Grand Rapids, $19,136 plus state cement $11,623.

Wisconsin—State Hy. Dept., Madison, Mineral Point-Dodgeville Rd., Federal Aid Project 180, Iowa Co. and Boscobel-Fennimore Rd., Federal Aid Project 141, Grant Co., to Iowa County Constr. Co., Mifflin, $13,464 and $12,604 respectively.

Wis., Elkhorn—Walworth Co. concrete surfacing Zenda Rd., incl. 14,578 sq.yd. concrete, etc., to Whitewater Bridge Co., Whitewater, $39,247.

Wis., Mayville—Paving 1.2 mi. various streets, one course concrete, concrete curb and gutter, 25 ft., to L. A. Larson & Co., Webster Blk., Oshkosh, $45,244. Noted June 8.

Wis., Sheboygan—Will pave Trimberger Court, South 15th and Superior Sts., 1 course concrete, concrete curb and gutter, by day labor. $60,000. C. N. Boley, City Hall, engr.

Wis., Wausau—Paving Washington, Clark and East Jackson Sts., 15,000 sq.yd. concrete, to C. Lotz, 1016 Grand Ave., $1.88 per sq.yd. Noted May 11.

Ia., Muscatine—For 25,948 sq.yd. paving and 15,143 ft. curb in Impvt. Dist. 36: Oregon and 2nd Sts., brick, to R. K. Smith, Muscatine, $56,000; 8th St., concrete, and 6th St. brick, to Natl. Constr. Co., Davenport, $19,000; Locust and West 8th St., tarvia, and West 5th and Spruce Sts., concrete, to Layton Constr. Co., Muscatine, $31,000.

Ia., Sioux City—Woodbury Co. grading (1) 6 mi. Bronson-Lawton Rd., 84,054 cu. yd. excav., (2) 8.25 mi. Climbing Hill-Oto Rd., 76,846 cu.yd. excav., to C. F Betz, 2209 Pierce St., (1) $15,465, (2) $15,292. Noted June 1.

Minn., Brainerd—Paving 28,000 sq.yd. various streets, to Ostrand & Hallet, Crosby, $1.99 per sq.yd. for gravel concrete and $2.045 per sq.yd. for crushed rock concrete. Noted May 25.

Minn., Minneapolis—Hennepin Co., grading 8,100 lin.ft. Rd. 6, 14,094 cu.yd. earth, 560 cu.yd. loose rock and 140 cu.yd. solid rock excav., 8,527 cu.yd. overhaul, 1,900 lin.ft. 6 in. tile, corrugated metal culverts, and 4,900 lin.ft. Rd. 44, 14,691 cu.yd. earth excav., 15,773 cu.yd. overhaul, monolithic and corrugated metal culverts, to Turnham & Turnham, Long Lake, $9,192 and $4,832 respectively. Bids rejected for grading approach from Lyndale Ave. to Dakota Co. line. Noted May 25.

N. D., Linton—Emmons Co., grading, building bridges and culverts on 16 mi. Federal Aid Project 139 between here and Strassburg, Sect. A, to Linton Bridge Constr. Co., Linton, $14,473; Sect. B, to R. F. Odenthal, Linton, $12,104; culverts to Linton Bridge Constr. Co., Linton, $8,757.

Missouri—State Hy. Dept. at div. office Doniphan, 5.596 mi. road from Doniphan to Poplar Bluff, Federal Aid Project 91, Sect. B, Ripley Co., to T. L. Wright Lumber Co., Doniphan, $30,920. Engrs. est. $42,266. Noted June 15.

Missouri—State Hy. Dept. at div. office Trenton, 5.879 mi. road from Trenton eastward, Federal Aid Project 116, Sect. B, Grundy Co., to M. Haase, Kansas City, $28,666.

Mo., St. Louis—Bd. Pub. Serv. to Granite Bituminous Paving Co., Ry. Exch. Bldg., resurfacing existing base of Vernon Ave. from Goodfellow Ave. to Union Blvd., $31,155, paving and concrete curbing Itaska St. from Brannon to Macklind Aves., $13,830, paving and granite curbing Emerson Ave. from Harney Ave. southward, $5,920, all bitulithic; to Trinidad Asphalt Mfg. Co., Title Guaranty Bldg., paving and granite curbing San Francisco Ave. from Taylor to Cora Aves., $8,305, Carr St. from 14th St. to Jefferson Ave., $57,127, paving and concrete curbing Sophia Ave. from Ashland Ave. to Natural Bridge Rd., $11,560, all foregoing refined asphalt, paving and concrete curbing Gilsop Ave. from Eichelberger St. to Wilcox Ave., $8,102, asphaltic concrete.

Ark., Hope—For 25,000 sq.yd. asphalt paving, to Kaw Paving Co., 506 N. E. Bldg., Topeka, $100,000.

Ark., Little Rock—Paving in Dists. 307, 308 and 310, involving 40,000 sq.yd. warrenite bitulithic on concrete, to Cook, Shelby & Bateman, Little Rock, $150,000.

Washington—State Hy. Dept., Olympia, grading and surfacing with crushed rock, 5 mi. Olympic Highway from Prairie to Lunch Creek, Grays Harbor Co., to Herrion & Stewart, Montesano, $88,596.

Wash., Seattle—Grading and paving Donald St. et al., 3,000 cu.yd. earthwork and subgrading, 2,940 lin.ft. special concrete curb, 12 in. face, 6,500 sq.yd. 7 in. concrete paving, 2,000 sq.yd. 2-course concrete walks, to D. H. Traphagen, Walker Bldg., $24,635. Engrs. est. $25,498.

Wash., Tacoma—Pierce Co., paving 1.94 mi., Bond Rd. 26, 19,178 sq.yd. concrete, 16,760 cu.yd. earth excav., to Sweeney, Hoist & Keating, Tacoma, $47,667, engrs. est., $49,952; clearing, grading and gravel surfacing 5.5 mi. Gig-Harbor-Longbranch Highway, 67 cu.yd. concrete, 43,346 cu.yd. earth excav., 9,389 cu.yd. gravel surfacing, to F. Morgan, Everett, $43,387, engrs. est. $47,362.

Wash., Yakima—Graveling 11 mi. Summitview-Cowiche-Tieton Rd., 28,300 cu.yd. earth excav., 22,000 cu.yd. crushed rock, to Sloane Constr. Co., Columbia Bldg., Spokane, $61,108. Engrs. est. $81,360. Noted June 15.

Cal., Bakersfield—Kern Co. improving road lying near Taft, Dist. 4, 57,601 sq.ft. 8 in. and 19,103 sq.ft. 6 in. concrete pavement, 1,580 cu.yd. excav. and 300 cu.yd. borrow, to Worden, Wimmer & Jones, Brown Bldg., $29,153.

Cal., Lodi—Improving Cordler St., 44,622 sq.ft. 1½ in. warrenite bitulithic on 2½ in. asphaltic concrete, 48,830 sq.ft. grading, 2,383 ft. concrete curb, 2,977 ft. concrete gutter; West Locust St., 42,000 sq.ft. paving, 45,374 sq.ft. grading, 19,828 ft. concrete curb, 2,415 ft. concrete gutter; Rose St., 86,287 sq.ft. paving, 94,341 sq.ft. grading, 4,362 ft. concrete curb, 5,452 ft. concrete gutter; Oak St., 49,875 sq.ft. paving, 54,209 sq.ft. grading, 2,448 ft. concrete curb, 3,060 ft. concrete gutter, to Clark & Henery Constr. Co., 38 South Sutter St., Stockton. Unit prices on above as follows, paving $0.185 per sq.ft.; grading $0.02; concrete curb $0.50; concrete gutter $0.26.

Cal., Los Angeles—Improving Palos Verdes St., San Pedro Dist., to Fairchild-Gilmore-Wilton Co., Los Angeles Ry. Bldg., 202,585 sq.ft. grading at $0.04 per sq.ft., 200,447 sq.ft. asphaltic paving $0.228, 2,138 sq.ft. concrete paving $0.228, 590 ft. concrete curb $0.70, 5,216 sq.ft. walks $0.22, 10,155 sq.ft. concrete gutter $0.24, etc., total $66,980.

Cal., Martinez—Improving various streets, 135,000 sq.ft. grading, 9,980 lin.ft. concrete curb, 18,170 sq.ft. concrete gutter, 103,850 sq.ft. 2½ in. of 4 in. asphaltic concrete base, 1½ in. surface, 3,000 sq.ft. corrugated concrete pavement, 4,380 ft. of 5 in. waterbound macadam, etc., to J. T. Sayles, Martinez, $47,692.

Cal., Merced—Supervs. Merced Co., improving 22.5 mi. Livingston-Atwater Highway, 50,000 ton crushed rock, 7,500 ton screenings, 6,500 bbl. asphalt, etc., to California Constr. Co., 58 2nd St., San Francisco, $263,900. Noted Feb. 2.

Cal., Oakland—Improving 14th St. from Market to Poplar Sts., to Oakland Paving Co., 5000 Bway., 127,792 sq.ft. grading at $0.0425 per sq.ft., 3,339 ft. concrete curb without steel guard, $0.72, 4,423 sq.ft. concrete gutter, $0.27, 117,369 sq.ft. asphaltic concrete pavement, $0.27, etc. Noted June 8.

Cal., Oakland—Improving 85th Ave. between 14th and E Sts., to Hutchinson Co., 1706 Bway., 86,810 sq.ft. grading at $0.045; 4,024 ft. concrete curb $0.70; 7,890 ft. concrete gutter $0.26; 62,329 ft. oil macadam $0.115; 7,581 sq.ft. cement walks $0.16, etc. Noted June 15.

Cal., Pittsburg—Improving Railroad and Black Diamond Sts., 1,407 cu.yd. grading,

Streets and Roads (Continued)

53,028 sq.ft. 6 in. concrete paving, 2,136 lin.ft. concrete curb, etc., to Bates and Borland, Oakland Bank of Savings Bldg., Oakland, $28,656.

Cal., San Francisco—City and San Francisco Co., improving North Point St. between Columbus Ave. and Embarcadero, to G. De Brettville, 24 California St., $39,749. Noted June 15.

Cal., San Jose—Improving 12th St. between Reed and Bestor Sts., to I. L. Ryder, 5 South 14th St., 135,320 sq.ft. 1½ in. warrenite on 3 in. asphaltic concrete, $0.2375 per sq.ft.; 5,040 sq.ft. concrete gutter, $0.20; 4,030 lin.ft. concrete gutter, $0.60; 21,490 sq.ft. concrete walks, $0.18, etc., total $50,000.

Cal., Torrance—Paving with asphalt macadam 127,700 sq.ft. Carson St. and 212,300 sq.ft. Arlington St., to Los Angeles Paving Co., 2900 Santa Fe Ave., Los Angeles, $33,934 and $51,401 respectively. Noted June 1.

Industrial Works

PROPOSED WORK

Mass., Dorchester (Boston P. O.)—P. B. Mutrie, 11 Pearl St., plans 1 story, 90 x 110 ft. brick and concrete garage and repair shop, Pearl St. $40,000. Private plans.

Mass., Middleton—Middleton Motor Co., Danvers, plans 2 story, brick and concrete garage and service station. $40,000. Private plans.

Mass., Southbridge—Hamilton Woolen Co., Mill St., plans 1 story, 120 x 140 ft. steel and concrete addition to plant, West St. $60,000. Private plans.

Conn., Branford—Military Emergency Bd., State Armory, Hartford, having plans prepared by Payne & Keefe, archts., Manwaring Bldg., New London, 1 story, 85 x 150 ft., brick and steel shop, at rear State Armory, here. $40,000.

Conn., Farmington—Union Electric Light & Power Co., Unionville, plan to enlarge hydro-electric power plant and install new generating machinery along Farmington River. $100,000. Architect not announced.

N. Y., Buffalo—H. N. Kraft (representing owner), 26 Summit Ave., plans 8 story garage, fireproof construction, Main and Elmwood Sts. To exceed $40,000. Owner's name withheld. Architect not announced.

N. Y., Buffalo—Swan Garage, Inc., East Swan St., plans to raze present building and erect new 3 story, 90 x 118 ft., concrete, brick and steel garage. To exceed $40,000. C. J. Irwin, pres. Architect not announced.

N. Y., New York—Dept. Plants & Structures, Municipal Bldg., soon takes bids 2 story, housing station, brick, steel and concrete, plain foundation, 27 Horatio St. $100,000. G. A. Whalen, comr. Private plans.

N. Y., New York—Koken-Chisholm Co., c/o Beineix & Snyder, archts. and engrs., 135 West 42d St., having plans prepared 4 story, 50 x 100 ft. brick, steel and concrete factory, plain foundation, 134th St. and Willow Ave. $150,000.

N. J., Camden—Bd. Freeholders Camden Co. plans new power house. $90,000. J. A. Albertson, Court House, engr.

N. J., Trenton—Freeman Electric Co., 803 East State St., plans 1 story, 32 x 100 ft. porcelain plant addition. $50,000. R. G. Consolloy, Commonwealth Bldg., archt.

Pennsylvania—See "Railways."

Pa., Bellefonte—Western Penitentiary, c/o J. Francis, warden, Riverside St., Pittsburgh, preparing plans 1 story, 30 x 132 ft. machine shop, steel. Private plans.

Pa., Charleroi—G. Woodward, plans 3 story, 88 x 100 ft., brick and steel service and repair shop. $45,000. Private plans.

Pa., Johnstown—J. Walling & Co., 518 Washington St., plans 3 story, 74 x 132 ft. concrete and steel garage, Railroad St. $150,000.

Pa., Lancaster—Bayuk Bros., 3rd and Spruce Sts., soon take bids 3 story, 80 x 176 ft. rein.-con. and brick factory. $105,000. E. A. Wilson 1208 Chestnut St., Phila., archt.

Pa., New Kensington—Premier Baking Co., c/o Fayette Baking Co., Connellsville, having plans prepared by B. H. Prack, archt., Keystone Bldg., Pittsburgh, 3 story, 80 x 99 ft. brick and steel bakery, Stanton Ave. $100,000.

Pa., Phila.—C. B. Cochrane, Kensington Ave. and Butler St., plans 3 story, 40 x 200 ft., rein.-con. and brick factory, plain foundation, Kensington Ave. and Butler St. $50,000. W. Steele & Sons, 16th and Arch Sts., engrs.

Pa., Shamokin—I. H. Wetzel, Shamokin, soon takes bids 2 story, 80x100 ft. garage and service station. $75,000. W. H. Lee, 32 South 17th St., Phila., archt.

Pa., Starbrick—(Warren P. O.)—Warren Steel Car Co. Inc., plans to rebuild factory recently destroyed by fire. $75,000. W. W. Muir, pres. Architect not announced.

Pa., Titusville—Titusville Iron Wks. Co. plans foundry, South Perry St. $40,000. Private plans.

Pa., Trafford City—Westinghouse Electric & Mfg. Co., East Pittsburgh, having plans prepared by B. H. Prack, archt., Keystone Bldg., Pittsburgh, 1 story, 50 x 135 ft. shop, steel frame, corrugated iron sidings. $40,000.

Md., Baltimore—Kaufman Beef Co., Union Stock Yards, had plans prepared 3 story, 110 x 120 ft., brick and concrete packing plant, plain foundation. $125,000. Himmelsbach & Schlich, 136 Liberty St., New York, engrs.

W. Va., Holden—Island Creek Coal Co. plans to rebuild machine shop recently destroyed by fire. $75,000. Architect not selected.

W. Va., Parkersburg—Apex Rubber Sundries Co., Citizens Bank Bldg., plans 1 story, 100 x 300 ft. factory. H. H. Cooper, mgr. Architect not selected.

W. Va., Wellsburg—Hammond Bag & Paper Co., plans 1 story, 120 x 500 ft. factory. M. J. Davis, secy. Architect not selected.

N. C., Reidsville—North Carolina Tobacco Growers' Co-operative Assn., plans receiving plant and warehouse. $50,000-$75,000. R. S. Montgomery, pres. Architect not selected.

S. C., Florence—Palmetto Power & Light Co., having plans prepared by P. A. Tillery, engr., Florence, for addition to power plant. $85,000-$100,000.

Ga., Columbus—Columbus Power Co., Columbus Railway Co. and Gas Light Co., plan to expend $700,000 for improvements and additions to 3 power plants.

O., Brookfield Center—Pennsylvania-Ohio Power & Light Co., Sharon, Pa., plans large sub-station here, and high tension line from Masury to Brookfield Center and Vienna. Private plans.

O., Cleveland—City, c/o F. Kohler, mayor, City Hall, plans steel and concrete underground garage in Mall Plan Aera. $500,000. F. S. Swales, 127 Hillcrest Ave., Yonkers, N. Y., archt.

O., Cleveland—Cleveland Kraut & Pickle Co., 1191 East 22nd St., plans 2 story, 80 x 120 ft., brick and steel factory, 3333 Lakeside Ave. $50,000. D. S. Duncan, mgr. Architect not selected.

O., Cleveland—E. Schimmelman, 17002 Lakeshore Blvd., had plans prepared 1 story, 54 x 118 ft., brick and steel garage and commercial building, 968 East 152nd St. $50,000. Private plans.

O., Cleveland—J. Struziak, 8126 Wade Park Ave., had plans prepared 1 story, 17 x 43 ft., brick and steel boiler room and garage, 4166 East 136th St. $40,000. Private plans.

O., Dayton—Dayton Daily News, plans 3 story newspaper plant, rein.-con., brick, stone and terra cotta, plain foundation, 4th St. $150,000. Architect not selected.

O., Painesville—City having plans prepared by Hadlow & Hick, archts. and engrs., Finance Bldg., Cleveland, 1 story, electric light plant addition. $50,000.

Mich., Detroit—Park Davis Co., 2951 Atwater St., having plans prepared by Smith, Hinchman & Grylls, archts., 710 Washington Arcade, 2 story, 75 x 100 ft., rein.-con., brick and steel power house, plain foundation, Atwater St. $75,000.

Ill., Chicago—E. Edelmann & Co., c/o D. S. Klafter, archt., 64 West Randolph St., having plans prepared 2 story, 150 x 250 ft. factory, rein.-con., brick and steel, Logan Blvd. and Holly Ave. $250,000.

Ill., Chicago—Ideal Sheet Metal Wks., 213 North Morgan St., having plans prepared by M. O. Nathan, archt., 70 West Monroe St., 3 story, 72 x 125 ft. factory, rein.-con., brick and steel, 2039-43 West Jackson Blvd. $75,000.

Wis., Ft. Atkinson—Ft. Atkinson Canning Co. plans to rebuild 2 story, 75 x 200 ft. factory recently destroyed by fire. $150,000. Architect not selected.

Wis., Sheboygan—W. A. Knaak Motor Co., South 13th St. and Georgia Ave., having plans prepared by E. A. Stubenrauch, archt., 629 North 8th St., 2 story, 50 x 95 ft., brick, rein.-con. and steel, garage and repair shop, Georgia Ave. $50,000.

Wis., Wautoma—L. Chaimson, c/o Fur Store, plans 1 and 2 story, 50 x 150 ft. feed and grist mill, brick and rein.-con., plain foundation. $50,000. Architect not selected.

Minn., St. Paul—Tilden Produce Co., 55 East 3rd St., having plans prepared by J. M. Alden, archt., 1004 Guardian Life Bldg., 4 story, 50 x 145 ft. produce building, rein.-con., brick and tile, East 3rd St. between Cedar and Minnesota Sts. $150,000.

Wyo., Laramie—Standard Oil Co. of Indiana, Laramie, plans large addition to refinery.

Tex., Graford—Weatherford-Brazos plans large oil refinery, near here. $200,000. Architect not announced.

Tex., Mineral Wells—Great Texas Oil & Refining Co., Ft. Worth, having preliminary plans prepared 1,000 bbl. capacity refinery, here. F. O. Stevenson, c/o owner, engr.

Idaho, Nampa—Idaho Sash, Door and Glass Co. plans concrete factory. $60,000. M. Frenzill, pres. Private plans.

Cal., Bakersfield—Atchison, Topeka and Santa Fe R. R., 221 South Bway., Los Angeles, having plans prepared for machine shops, on 20 acre site, here. $400,000. R. B. Ball, ch, engr.

Cal., Los Angeles—California Electric Heating Co., 517 Chapman Bldg., plans factory, probably brick and steel, southeast part of city. $100,000. W. H. Vance, vice-pres. Architect not selected.

Cal., Sacramento—See "Dams."

Ont., Chippawa—Ontario Power Comn., London, plans to rebuild transformer station here destroyed by five. Loss $200,000. Prices wanted on 5 new transformers. A. Beck, 169 Albert St., London, chn.

Ont., Lindsay—J. Hadley, Lindsay, plans to rebuild factory recently destroyed by fire. $60,000. Architect not announced.

Ont., Thessalon—Having plans prepared by James, Proctor & Redfern, engrs., 36 Toronto St., Toronto, hydro electric plant, 200 h.p. turbine and generator, concrete dam, concrete and brick power house and 3 mi. transmission line. $50,000.

Ont., Welland—St. Thomas Packing Co., Ltd., St. Thomas, plans cold storage plant, brick, here. $50,000.

Ont., Welland—Welland Cotton Mills, Ltd., plans new mills, Queen and Duncan Sts. $1,000,000. Architect not announced

BIDS DESIRED

Conn., Essex—E. E. Dickenson & Co., taking bids 2 story, 40 x 100 ft. brick and timber factory addition. $40,000. Bilderbeck & Uangdon, Inc., 159 State St., New London, archts. and engrs.

Conn., Hartford—Buck & Sheldon, Inc., archts. and engrs., 60 Prospect St., taking bids 1 story, 100 x 110 ft. brick and timber plant, plain foundation, Franklin Ave., for R. S. Peck & Co., 26 High St.

N. Y., Brooklyn—June 26, by G. A. Whalen, comr. Plant & Structures, Municipal Bldg., New York, housing station, Atlantic Ave. between Utica and Schenectady Aves., here, for Dept. Street Cleaning.

N. Y., Buffalo—D. E. Knowlton, 85 Perry St., taking bids 5 story, 50 x 101 ft. brick and steel warehouse, Perry St. $100,000. Architect not announced.

N. J., Hoboken—June 28, by Lockwood & Green, archts. and engrs., 101 Park Ave., New York, 1 and 2 story, 100 x 200 ft., rein.-con., brick and steel foundry, plain foundation, 13th and Grand Sts., here, for Fischer & Sweeney Bronze Co., 312 Adams St. Noted May 11.

Pa., Coraopolis—Standard Steel Spring Co., Coraopolis, taking bids 1 story, 64 x 141 ft. factory. Private plans.

Va., Buena Vista—United Chemical Products Co., 609 Chamber of Commerce Bldg., Pittsburgh, Pa., taking bids on general contract, 1 story, 41 x 44 ft., chemical fertilizer plant, here. $45,000. F. B. Deane, c/o owner, engr.

N. C., Winston-Salem—July 15, by Bailey Bros., 5 story, 60 x 150 ft., rein.-con., steel and brick factory. $100,000. Lockwood, Greene & Co., Charlotte, archts. Noted June 8.

Fla., Quincy—July 18, by City Council, enlarging and equipping electric light and water works plants. $400,000. A. Smith, city clk.

O., Ada—June 25, by Ohio Northern University, 45 x 75 ft., rein.-con. and steel power house. T. J. Smull, executive secy.

O., Cleveland—July 5, by F. Fanta, 5813 Clark Ave., 1 story, 44 x 116 ft., brick and steel garage, 5914 Merrill Ave. $40,000. Private plans.

Industrial Works (Continued)

O., Columbus—June 24, by H. S. MacAyeal, dir. Dept. Pub. Welfare, laundry and bake shop at Institution for Feeble Minded, West Broad St. $50,000 and $30,000 respectively. R. S. Harst, Ohio-Hartman Bldg., archt.

Ill., Chicago—Holton-Seeley Co., 140 South Dearborn St., receiving bids 1 story, 75 x 110 ft. garage, rein.-con., brick and steel, 610-16 East 61st St. $40,000. L. E. Russell, 25 North Dearborn St., archt.

Ill., Chicago—R. G. Schmid & Co., archts., 154 West Randolph St., receiving bids 8 story, 100 x 100 ft. warehouse, rein.-con., brick and steel Des Plaines and Van Buren Sts., for Bradner, Smith & Co., 175 West Monroe St. $300,000.

Wis., Milwaukee—P. E. Schaefer, archt., 401 4th St., taking bids 1 story, 50 x 125 ft., brick and concrete plant plain foundation, Center and 29th Sts., for M. Froehlig, c/o architect. $40,000.

Wis., Racine—H. & M. Body Corp., 608 Center St., taking bids 1 story dry kilns, brick, plain foundation, Center St. $125,000. Private plans.

Wis., Sheboygan—E. A. Juul, archt., 805 North 8th St., taking bids 1 story, 50 x 60 ft., brick and steel power house and engine house, incl. equipment, on 12th St., for Phoenix Chair Co., 12th St. and Virginia Ave. $40,000.

Cal., Colusa—California Prune & Apricot Growers Assn., San Antonio and Market Sts., San Jose, taking bids 1½ story, brick and frame cannery. $100,000. Private plans. Noted June 8.

CONTRACTS AWARDED

Me., Pittsfield—Amer. Woolen Co., Lawrence, 3 story, 50 x 90 ft. brick and timber addition to plant, plain foundation, to H. Purinton Co., 40 Pleasant St., Waterville. Archts. est. $40000. Noted June 1.

Mass., Boston—Ginter Co., 369 Congress St., 4 story, 40 x 80 ft. rein.-con. bakery, Shawmut St., to Dillaby Fireproofing Co., 101 Tremont St. Archts. est. $50,000.

Mass., Lowell — Massachussetts Mohair Plush Co., 122 Western Ave., will build 2 story, 40 x 140 ft. brick, concrete and steel addition to finishing plant, by day labor. $45,000.

Mass., Springfield—W. Lay, Bridge St., 1 story, 100 x 150 ft. garage and sales room, brick and concrete, plain foundation, Bridge St., to E. J. Pinney, Inc., 374 Main St. Archts. est. $50,000.

R. I., Providence—Wanskuck Co., 1117 Douglas Ave., 1 story, brick and steel boiler house, and alterations to Seneca Mills, to Willmarth-MacKillop, Inc., Freeman St., Pawtucket. $50,000.

N. Y., Brooklyn—Kruse Motor Co., 1111 Flatbush Ave., 1 story, 100 x 100 ft., service station and garage, rein.-con., brick and steel, Nostrand Ave. and Ave. I, to Rugge Constr. Corp., 189 Bay 19th St., $50,000.

N. Y., Lockport—A. W. Jack Corp., brick, concrete and steel mill, to J. W. Cowper Co., Fidelity Bldg., Buffalo, $200,000.

N. Y., Long Island City—Ridleys, 345 West 40th St., New York, 4 story, 80 x 140 ft., brick and concrete factory, plain foundation, Queens Blvd. and Moore St., here, to Industrial Eng. Co., 30 Church St., New York. Archts. est. $150,000.

N. Y., Long Island City—Wheeling Corrugating Co., 16 Desbrosses St., New York, 6 story, rein.-con. and steel plant, concrete pile foundation, Nelson Ave, from School to Van Dam Sts., here, to Foundation Co., 120 Liberty St., New York. Archts. est. $250,000.

N. Y., New York—Transit Comn., 49 Lafayette St., 2nd addition to existing shops on Lenox Ave. and West 148th St., to Bainbridge Constr. Co., 52 Vanderbilt Ave., New York, $297,000. Noted June 8.

N. Y., Red Creek—Central Packing House, 50 x 100 ft. fruit packing house, to J. Pringle, Red Creek.

Pa., Holmesburg (Phila. P. O.)—Tilden & Register, archts, 1525 Locust St., Phila., 2 story, 40 x 150 ft. brick and steel plant, plain foundation, to Royd-House-Arey Co., 112 North Broad St., Phila., for H. H. Barton & Sons, State Rd. Engrs. est. $50,000. Noted May 25.

Pa., Phila.—Phila. Paper Co., Nixon and Fountain Sts., 1 story, 115 x 200 ft. brick and steel storage plant, plain foundation, Nixon and Fountain Sts., to Hughes-Foulkrod Co., Commonwealth Bldg., $60,000.

Pa., Pine Grove — Eastern Pennsylvania Light, Heat & Power Co., Pottsville, generating plant, 25,000 kw. capacity, here, to J. G. White Eng. Corp., 43 Exch. Pl., New York Engrs. est. $3,000,000.

Pa., Pittsburgh—Atlantic & Pacific Tea Co., Bay St., Jersey City, N. J., warehouse and garage, Dallas Ave., here, to Turner Constr. Co., 11 Goodell St. Buffalo, N. Y. Engrs. est. $500,000.

Pa., Pittsburgh—Natl. Supply Co., 1304 Union Bank Bldg., 2 story, 105 x 105 ft. warehouse, Adams and Delaware Aves., to W. F. Trimble Sons Co., 1719 Penna. Ave., $70,000.

Pa., Shamokin—Croninger Packing Co., 5 story, 50 x 77 ft. and 28 x 52 ft. brick and steel plant, plain foundation, to Shamokin Lumber & Constr. Co., Shamokin. Engrs. est. $200,000. Noted April 6.

Pa., Washington—Observer Publishing Co., 2 story, 60 x 150 ft. limestone and brick plant, Main St., to J. G. Cowper Co., Oliver Bldg., Pittsburgh. Engrs. est. $150,000. Noted June 15.

N. C., Cherryville—Carlton Yarn Mill, Inc., constructing cotton mill, to C. A. Manney, Cherryville, $100,000.

Ga., La Grange—Dunson Mills 1 story, 111 x 132 ft. addition to weave shed, to West Point Iron Wks., West Point.

O., Cleveland—Greenwald-Stecker & Wallach, 535 Society for Savings Bldg., 2 story, 67 x 268 ft., brick, steel and concrete garage and store building, 1934 East 105th St., to V. Piscopo, 2233 Edgehill Rd. Archts. est. $125,000. Noted Nov. 10.

O., Cleveland—Independent Towel & Supply Co., 1822 Central Ave., 1 and 3 story, 80 x 100 ft. and 79 x 90 ft., brick, steel and concrete laundry and garage, to G. A. Rutherford Co., 2721 Prospect Ave. Archts. est. $100,000. Noted June 8.

O., Cleveland—Ohio Crank Shaft Co., 982 East 152nd St., 1 story, 60 x 200 ft., brick and steel factory, 6510 Clement Ave., to K. F. Korval, East 76th St. and Union Ave., Archts. est. $70,000. Noted June 8.

O., Cleveland—Penton Publishing Co., 1336 Chestnut Ave., 9 story, 135 x 135 ft., brick and rein.-con. publishing plant, West 3rd and Lakeside Ave., to Hunkin-Conkey Constr. Co., Century Bldg. Archts. est. $500,000. Noted June 8.

O., Lakewood (Cleveland P. O.)—W. C. Schultz, 11913 Detroit Ave., 1 story, 70 x 90 ft., brick and steel garage and commercial building, Detroit and Cove Aves., to Jones Co., 11731 Detroit Ave., Cleveland. Archts. est. $40,000. Noted June 1.

Mich., Saulte Ste. Marie—Cadillac Lumber & Chemical Co., structural steel for 1 story, 93 x 275 ft. and 110 x 116 ft. concrete and steel mill, to Indiana Bridge Co., Muncie, Ind. Remainder of work will be done by day labor. Total $250,000. Noted May 25.

Wis., Clinton—T. B. Goodall, Broad St., 1 story, 50 x 55 ft., filling station, brick and tile, also oil storage tanks, Main St., to W. J. Fitzgerald, Beloit. Archts est. $40,000.

Wis., Merrill—Wisconsin Valley Co., Inc., 400 Mills St., will build 2 story, 50 x 60 ft., brick and rein.-con. factory, plain foundation, by day labor. $40,000. Private plans.

Wis., Monroe — Badger Cheese Co., 2 story, 40 x 100 ft. cold storage plant, brick, rein.-con. and steel, plain foundation, to L. S. Wagner & Son, Monroe. Archts. est. $100,000.

Wis., Sheboygan—E. W. Tupper, 1328 North 7th St., general contract 1 story, 50 x 60 ft. garage and filling station, brick and rein.-con., St. Clair St., to H. Loesing, Jr., 1900 North 11th St. Engrs. est. $40,000.

Wis., Waukesha—G. W. Harter, 1 story, 50 x 90 ft., garage and repair shop, brick and rein.-con., plain foundation, to O. C. Johnson, Waukesha. Archts. est. $40,000.

Minn., St. Paul—L. F. Dow Co., 381 Jackson St., will build 4 story, 100 x 300 ft. rein.-con., brick and tile printing and office building, University and Hampdon Aves., by day labor. $400,000.

S. D., Mitchell—Rozum Motor Co., 400 East 4th Ave., 1 story, 142 x 150 ft. concrete and brick garage, to A. M. Wold-Mark Constr. Co., Brookings, $40,000. Noted March 16.

Cal., San Francisco—W. N. Brunt, 766 Mission St., 2 story printing plant, concrete, Minna and 7th Sts., to H. J. Hjul, Monadnock Bldg. Engrs. est. $40,000.

Cal., San Francisco—L. A. Norris, 136 Townsend St., 3 story, 60 x 275 ft., brick and concrete warehouse, Townsend St. near Stanford St., to Clinton Constr. Co., 140 Townsend St., $40,000.

Ont., Windsor—Hydro Electric System, 113 Chatham St., 36 x 84 ft. rein.-con., brick and steel distribution station, to Muxlow & Gale, Ouellette Ave. and Erie St., $33,000.

Buildings

PROPOSED WORK

Me., Rumford—Store and Apartment—Rumford Trust Co., plans 6 story, brick. $200,000. Architect not announced.

Vt., Burlington—Hospital—De Goesbriand Hospital having sketches made, brick, Pearl St. $150,000. Maginnis & Walsh, 100 Boylston St., Boston, archts.

Mass., Belmont—High School—School Building Com. plans 2 story Junior High School. $200,000. McLoughlin & Burr, 88 Tremont St., Boston, archts.

Mass., Boston—Theatre—Palmer Amusement Co., c/o A. H. Bowditch, archt., 44 Bromfield St., plans 3 story, brick, steel and rein.-con., Columbus Ave. $500,000.

Mass., Cambridge—Hospital—Cambridge City Hospital, 1493 Cambridge St., plans addition. $200,000. E. T. P. Graham, 171 Newbury St., Boston, archt.

Mass., Tewksbury—Infirmary Addition—Dept. Health, State House, Boston, plans 2 story, brick addition to Massachusetts State Infirmary, here. $150,000. Hoy & Bixby, 8 Beacon St., Boston, archts.

Conn., Fairfield — High School — High School Com. plans 2½ story, Post Road, to be built in 3 units. $300,000. O. C. S. Ziroli, 211 State St., Bridgeport, archt.

Conn., New Britain—Hotel—New Britain Chamber of Commerce, c/o Hotel Com., 140 Main St., plans hotel, West Main St. $900,000. Architect not selected.

Conn., Storrs—Church and Parish House—Community Church Corp., c/o M. Dawson, pastor, plans 1 story. $150,000. D. K. Perry, 17 Court St., New Britain, archt.

N. Y., Albany — Municipal — Common Council had plans prepared by H. Rogers, archt., 445 Bway., municipal building, Eagle and Beaver Sts. $200,000. Address J. M. Nolan, supt. buildings.

N. Y., Bath—School—Bd. Educ. having preliminary plans prepared by Rogers & Smith, archts., 101 Park Ave., New York. $197,000-$207,000.

N. Y., Coney Island (Brooklyn, P. O.)—Bank—Bank of Coney Island, Surf Ave., soon takes bids brick and stone, plain foundation. $150,000. Holmes & Winslow, 134 East 44th St., New York, archts. and engrs.

N. Y., New York—Office—Emerson Shoe Co., 142 Duane St., soon takes bids 12 story, brick, steel and stone, plain foundation, Bway. and 40th St. F. B. and A. Ware, 1170 Bway., archts. and engrs.

N. Y., Rochester—Exchange—Rochester Telephone Corp., 59 Stone St., plans 166 x 200 ft., Elm and Euclid Sts. To exceed $150,000. Architect not selected.

N. Y., Rochester — Temple — Baptist Temple having plans prepared by Gordon, Kaelber & Traver, archts., 129 Sibley Blk., new temple. Noted April 6.

N. Y., Schenectady — Schools — Bd. Educ. had plans prepared enlarging and additions to Washington Irving, Van Corlaer and McKinley Schools. $250,000. L. E. Barringer, pres.

N. J., Camden—Y. W. C. A., 565 Stevens St., soon takes bids 3 story, 69 x 103 ft., brick and limestone, on Stevens St. $300,000. Lackey & Hettel, 509 Federal St., archts.

N. J., Hackensack—School—Bd. Educ., Room 107, State St. School, rejected bids opened May 18, school between Williams and Washington Aves. $150,000. Will readvertise. Noted May 4.

N. J., Passaic—Hospital—St. Marys Hospital, Pennington Ave., having preliminary plans prepared by Crow, Lewis & Wick, archts. and engrs., 200 5th Ave., New York, 5 story, brick, steel and stone addition, plain foundation. $300,000.

Pa., Beaver Falls—High School—Bd. Educ. having plans prepared by Carlisle & Sharrer, archts., Jenkins Arcade, Pittsburgh, 2 story, brick and tile. $150,000.

Pa., Bridgeville—School—Bd. Educ. having preliminary sketches made by G. Schwan, archt., Peoples Bank Bldg., Pittsburgh, for 2 story, brick grade and high school. $150,000.

Pa., Erie—Apartment—Sobel Real Estate & Constr. Co., Marine Bank Bldg., plans 7 story, 128 x 147 ft. rein.-con. and brick. $560,000. G. W. Stickle, Commerce Bldg., archt.

Pa., Holmesburg (Phila. P. O.)—Home—Dept. Pub. Welfare, City Hall, soon takes bids 2 story, 40 x 300 ft. addition to house

Buildings (Continued)

of correction, rein.-con., brick, steel and stone, plain foundation. $200,000. C. H. Oelschlager, 1615 Walnut St., Phila., archt.

Pa., Johnstown — Hospital — Memorial Hospital having plans prepared by W. R. Myton, archt., 1st Natl. Bank Bldg., 4 story. 125 x 225 ft., brick and steel, Frank and Akers Sts. $300,000.

Pa., Mahonoy City—Theatre and Office—B. R. Stephens, archt., 1737 Filbert St., soon takes bids 4 story, 50 x 175 ft., brick, steel and stone, plain foundation. $200,000. Owner's name withheld.

Pa., Mt. Lebanon—Church—Mt. Lebanon Methodist Episcopal Church, c/o N. H. Sanner, pastor, 1250 Peermont Ave., Dormont, having plans prepared by C. W. Biers, archt., Pittsburgh Life Bldg., Pittsburgh, 2 story, 100 x 100 ft. stone and steel, West Liberty Ave. $150,000.

Pa., New Castle—School—Bd. Educ. having plans prepared by H. M. Wirsing, archt., New Castle, junior high school, East Washington St. $150,000.

Pa., Parnassus—School—Bd. Educ. plans 2 story, school. $150,000. Architect not selected.

Pa., Pittsburgh—Gymnasium—Carnegie Institute of Technology, Schenley Park, having preliminary plans prepared by H. Hornbostel, archt., 2nd Ave. and Smithfield St., 2 story, brick and terra cota, Schenley Park. $150,000.

Pa., Pittsburgh—Gymnasium—Duquesne University, Bluff St., having plans prepared by A. F. Link, archt. 407 North Craig St., 3 story gymnasium. $150,000.

Pa., Pittsburgh—Office—A. H. DuPuy, Empire Bldg., had plans prepared by F. I. Merrick, archt., Empire Bldg., 18 story, 86 x 112 ft. top addition and 30 story, 22 x 112 ft. side addition, to present 12 story building, Stanwix and Liberty Sts. $1,250,000. Noted June 15.

Pa., Republic—High School—Bd. Educ. Red Stone Twp., c/o A. Thompson, pres., having revised plans prepared by J. H. Harmon, archt., Fayette Tile & Trust Bldg., Uniontown, 2 story, brick, steel and tile. $200,000. Noted March 16.

Pa., Roslyn—Hotel—W. Hammond, 2406 Spruce St., Phila., soon takes bids 6 story, 300 room, brick, steel and stone, plain foundation, here. $500,000. Ballinger & Co., 12th and Chestnut Sts., Phila., archts.

Pa., Sharon—Business—S. Lurie, Sharon, plans two 2 story, brick business buildings, one in West State and one in West Porter Sts. To exceed $150,000. Private plans.

Pa., Titusville—Theatre—Morosco Holding Co., 25 West 43rd St., New York, plans 2 story, 40 x 120 ft., brick, West Spring St., here. $150,000. Architect not announced.

Pa., Vandergrift—High School—Bd. Educ. having plans prepared by W. G. Eckles, archt., Lawrence Savings & Trust Bldg., New Castle, 2 story, brick and stone addition, Franklin Ave. $155,000.

Pa., Woodlawn—High School—Bd. Educ. having prepared by Carlisle & Sharrer, archts., Jenkins Arcade, Pittsburgh, 2 story, 30 room, brick and stone, Rivor Pl. $300,000.

W. Va., Charleston—Store—Coyle & Richardson, Capitol St., having plans prepared by H. R. Warne, archt., Masonic Bldg., 4 story, brick and steel, Dickinson and Lee Sts. $200,000.

W. Va., Huntington—Office—Meanor & Handloser, archts., Robson-Prichard Bldg., soon lets contract 8 story, 30 x 90 ft., brick, steel and concrete, 9th St. between 5th and 6th Aves., for Jackson Building and Loan Assn., 912 9th St. $150,000. Noted Feb. 23.

W. Va., Morgantown—City Hall—Voted $750,000 bonds constructing city hall and new sewerage system.

W. Va., Rivesville—Lodge—Knights of Pythias, Felicity Lodge, c/o C. C. Arnett, secy., havning plans prepared by M. Watkins, archt., Fairmont, 3 story, 64 x 80 ft., brick, 4th Ave. $150,000.

W. Va., Wheeling—Store—Cooey-Bentz Co., 3601 Jacob St., plans improving present building and new 5 story, 100 x 150 ft., 3609 Jacob St. $300,000. Architect not selected.

N. C., Asheville—Hotel—I. Batchelor is promoter of stock company, which plans 10 story hotel. $1,000,000. J. L. Preacher & Sons, Healy Bldg., Atlanta, Ga., engrs.

N. C., High Point—Schools—Voted $250,000 bonds constructing school buildings. Noted May 4.

SEWERAGE SYSTEM—CLIFTON, N. J.

Bids were opened by City, May 16, (Engineer's estimate and lowest three) for constructing sewerage system, (A) Engineers estimate; (B) F. B. Beasman & Co., Fidelity Bldg., Baltimore, (awarded contract); (C) J. L. Sigretto; (D) Purcell & Gilfeather Corp. The unit bids were as follows:

	A	B	C	D
154,418 cu.yd. earth excavated excepting house connections	$1.60	$1.70	$1.50	$2 25
38,417 cu.yd. rock excavated excepting house connections	3.25	1.70	3.50	2 25
29,000 cu.yd. excavation for house connections	1.00	.90	1.00	1 00
60,000 lin.ft. 5-in. vitrified t.c. or concrete house connections	.....	.30	.50	29
179,824 ft. furnishing and laying 8 in. terra cotta pipe—Class A joints	.65	.65	.65	64
13,235 ft. furnishing and laying 10 in. terra cotta pipe—Class A joints	.85	.70	.80	70
1,799 ft. furnishing and laying 12 in. terra cotta pipe—Class A joints	1.05	1.00	.90	98
6,993 ft. furnishing and laying 15 in. terra cotta pipe—Class A joints	1.55	1.50	1.20	1 48
8,213 ft. furnishing and laying 18 in. terra cotta pipe—Class A joints	2.05	2.20	1.75	2 18
2,837 ft. furnishing and laying 20 in. terra cotta pipe—Class A joints	2.40	2.65	2.00	2 60
3,663 ft. furnishing and laying 24 in. terra cotta pipe—Class A joints	3.40	3.25	2.50	3 20
100 ft. furnishing and laying 27 in. terra cotta pipe—Class A joints	4.10	3.80	5.00	3.75
3,009 ft. furnishing and laying 30 in. terra cotta pipe—Class A joints	5.25	4.20	5.50	4 15
649 ft. constructing each plain manhole complete	100.00	100.00	100.00	100 00
649 ft. constructing each junction manhole complete		100.00	100.00	98 00
177 ft. constructing each drop manhole complete	120.00	120.00	100.00	120 00
742 ft. furnishing and setting each cast iron manhole frame and cover	11.00	14.00	14.00	13 75
47.5 tons furnishing and laying cast iron pipe and specials	95.00	100.00	100.00	100 00
3,140 sq.yd. furnishing and laying mastic pavement-concrete foundation	3.50	2.25	3.50	2 20
50,000 sq.ft. constructing cement concrete sidewalks	.22	.21	.30	20
Extended totals	$808,106	$759,494	$853,274	$866,804

N. C., Lexington—Schools—Voted $225,000 bonds to construct new school, gymnasium and auditorium.

N. C., Roxboro—Courthouse—Person Co. having plans prepared by H. Barton, archt., Greensboro, new courthouse, on present site. $250,000.

N. C., Wilson—Courthouse—Wilson Co. to vote July 22, on $250,000 bonds to construct courthouse. H. B. Lane, Wilson, co. comr.

S. C., Greenville—Hotel—I. Bacheler, is promoter of stock company which plans 7 story hotel. $500,000. J. L. Preacher & Sons, Healy Bldg., Atlanta, Ga., engrs.

Ga., Atlanta—Store—M. Rich & Bros. Co., 52 Whitehall St., having plans prepared by Hentz, Reid & Adler, archts., 92½ North Forsyth St., 4 story, 125 x 200 ft. with 90 x 100 ft. wing, tile and concrete, rock foundation, Atlanta and Broad Sts. $800,000.

Tenn., Knoxville—Church—First Baptist Church, 620 South Gray St., having plans prepared by Daugherty & Gardner, archts., Stahlman Bldg., Nashville. $350,000.

O., Bainbridge—School—Bd. Educ. having plans prepared by F. G. Porter, archt., Keith Bldg., Cleveland, 2 story, brick, steel and concrete, plain foundation. $150,000.

O., Cleveland — Apartment — Ridgewood Building Co., c/o A. B. Smythe, Erie Bldg., having plans prepared by A. M. Allen & Co., archts., Seventy-First Euclid Bldg., 4 story, 118 x 118 ft., brick, steel and concrete, plain foundation, Euclid Ave. and East 117th St. $350,000.

O., Cleveland—Commercial—A. W. Murphy, 7341 Euclid Ave., plans 2 story, brick and steel, plain foundation, Prospect Ave. and East 12th St. $200,000. Bohnard & Parsson, 1900 Euclid Ave., archts.

O., Dayton—Sales, etc.—Dayton and Troy Auto Co., 2nd and St. Clair Sts., plans 5 story, 85 x 200 ft., rein.-con., and brick sales building and garage, plain foundation. $180,000. Architect not selected.

O., Groveport—High and Grade School—Bd. Educ. having plans prepared by D. Riebel and Sons, 1st Natl. Bank Bldg., Columbus, 2 story high and grade school. $210,000.

Mich., Detroit—Apartment—C. D. Lundblad, archt., 206 New Telegraph Bldg., preparing plans for 3 story, 90 x 125 ft., rein.-con., brick and steel, plain foundation. $200,000. Owners name withheld.

Mich., Detroit—Church and Rectory—St. Hyacinth Parish, 5200 McDougall Ave., having plans prepared by Donaldson & Meier, archts., 1314 Penobscot Bldg., 2 story, 102 x 280 ft. brick, steel and stone, plain foundation, McDougall Ave. $175,000.

Mich., Detroit—School—Bd. Educ., 1354 Bway. Ave., having plans prepared by Malcomson, Higginbotham & Palmer, archts., 405 Moffat Bldg., 2 story, rein.-con., brick, steel and stone, plain foundation, Selden Ave. $150,000.

Mich., Highland Park—Apartment—L. E. Koch, c/o Lane, Davenport & Peterson, archts., 2320 Dime Bank Bldg., Detroit, had plans prepared for 3 story, 65 x 154 ft. brick and steel, plain foundation. $160,000.

Mich., Watervliet—School—Bd. Educ. having plans prepared by R. A. LeRoy, archt., 122 Pratt Blk., Kalamazoo, 2 story, rein.-con., brick and terra cotta, plain foundation. $150,000.

Ill., Chicago—Apartment—A. Anis, archt., 127 North Dearborn St., soon receives bids 6 story, 64 x 140 ft., rein.-con., brick and steel, Brompton Ave. near Sheridan Rd., for S. Edison, c/o architect. $650,000.

Ill., Chicago—Apartment—F. W. Freutel, c/o H. J. Leidberg, archt., 154 West Randolph St., having plans prepared 3 story, 100 x 225 ft., rein.-con., brick and steel, Sheridan Rd. and Diversey Blvd. $200,000.

Ill., Chicago—Club and Office—Illinois Women's Athletic Assn., 820 Tower Court, having plans prepared by Schmidt, Garden & Martin, archts., 104 South Michigan Ave., 16 story, 64 x 265 ft., rein.-con., brick and steel, Rush and Pearson Sts. $1,250,000.

Ill., Chicago—Mercantile—A. S. Ahlschuler, archt., 28 East Jackson Blvd., soon receives bids mail order house on Jackson Blvd. and Rockwell St., for Chicago Mail Order Co., Indiana and 29th St. First unit calls for 8 story building to cost $1,000,000. Lot measures 275 x 465 ft. Total cost $4,000,000.

Ill., Chicago—Office—Chicago Tribune, Madison and Dearborn Sts., offers $100,000 prizes to architects for accepted drawings for proposed 22 story, 100 x 225 ft. rein.-con., brick and steel, Michigan Blvd. and Illinois St., $4,000,000. R. R. McCormick, publisher. Noted June 15.

Ill., Chicago—Store and Hotel—W. H. Hess, c/o H. O. Stone & Co., 111 West Washington St., plans 125 x 200 ft., rein.-con., brick and steel, Diversity Blvd. and Lehman Court. $1,000,000. Architect not selected.

Wis., Milwaukee—Church—Third Church of Christ Scientist, 1179 16th St., having preliminary plans prepared by Klug & Smith, archts., 69 Wisconsin St., 2 story, brick and tile, plain foundation, Sherman Blvd. $160,000. Noted June 8.

Wis., Milwaukee—Hospital—South Side Civic Assn., 926-23rd Ave., having preliminary plans prepared by R. E. Oberst, archt., 307 Grand Ave., brick and concrete, plain foundation. $500,000.

S. D., Deadwood — Schools — Bd. Educ. having plans prepared by W. W. Beach Co., archts., Warnock Bldg., Sioux City, Ia., two 2 story, rein.-con., brick, tile and stone schools. $150,000.

Wash., Tacoma—Temple—Masonic Temple Assn., 743 Market St., plans 4-6 story, 155 x 167 ft. temple, St. Helens and South 2nd Aves. $450,000.

Cal., Concord—High School—Mt. Diablo High School Dist. had plans prepared by W. H. Weeks, archt., 369 Pine St., San Francisco, 2 story, rein.-con. addition. $150,000.

Buildings (Continued)

Cal., Exeter—Schools—Exeter Union High School Dist. plans election to vote on $150,000 bonds constructing additions and installing heating plant in present structure. Architect not selected.

Cal., Fresno—Lodge and Store—Knights of Pythias, having sketches made by Swartz & Ryland, archts., Rowell Bldg., 4 story, Merced and Van Ness Sts. $175,000.

Cal., Long Beach—Hotel—A. Horsley, having preliminary plans prepared by L. L. Jones, archt., 472 Pacific Electric Bldg., Los Angeles, 4 story, 100 x 175 ft., brick and terra cotta, Ocean Ave. $150,000.

Cal., Los Angeles—Apartment—J. Berman and D. Trattner, Union Bank Bldg., having plans prepared by Russell & Alpaugh, archts., 1106 Story Bldg., 6 story, 135 x 155 ft., rein.-con. and brick, Wilshire Blvd. $600,000.

Cal., Los Angeles—Club—Los Angeles County Medical Assn., c/o A. Kress, Bradbury Bldg., having plans prepared by H. L. Pierce, archt., 301 Wright and Callender Bldg., 3 story, 90 x 120 ft., rein.-con., Orange St. $250,000.

Cal., Los Angeles—Exchange—Southern California Telephone Co., 716 South Olive St., had plans prepared 4 story, 47 x 75 ft., steel and brick addition, 622 South Hill St. $150,000.

Cal., Los Angeles — Home—Salvation Army, Chamber of Commerce Bldg., having plans prepared by E. Bergstrom, 1128 Citizens Natl. Bank Bldg., 4 story, 150 x 162 ft., brick, 6th and Boylston Sts. $200,000.

Cal., Los Angeles—Store and Lofts—Bway. Building Co., having plans prepared by E. Bergstrom, archt., 1128 Citizens Natl. Bank Bldg., 6 story, 40 x 115 ft., steel and brick, Bway. $150,000.

Cal., Oakland—Museum—Had preliminary plans prepared by H. Gilkey city landscape engr., City Hall, 240 x 250 ft., concrete, Lakeshore Blvd.

Cal., Oakland—Office, Club, etc.—Athens Athletic Club, 62 Farragut St., having sketches made by Bliss & Faville, archts., Balboa Bldg., San Francisco, 6 story, office, club and railroad terminal, 14th and Franklin Sts. $1,900,000.

Cal., Pasadena—Schools—Voted $1,340,000 bonds for schools. Address Bd. Educ., Chamber of Commerce Bldg. Architect not selected.

Cal., Redwood City—Schools—Sequoia Union High School Dist., having revised plans prepared and soon takes bids constructing three 1 story, rein.-con. and frame, State Highway and Bway. $300,000. Former bids rejected. C. Werner and A. I. Coffey, Humboldt Bank Bldg., San Francisco, archts. Noted June 15.

Cal., Sacramento — Schools — Having specifications prepared by Dean & Dean, archts., City Library Bldg., constructing schools. $400,000.

Cal., San Francisco—Home—San Francisco Ladies' Protective and Relief Society, 1200 Franklin St., and University Mound Old Ladies' Home, San Francisco, having preliminary plans prepared by L. P. Hobart, archt., Crocker Bldg., two buildings, brick and concrete, on block bounded by Bay, Francisco, Laguna and Octavia Sts. $250,000.

Cal., Santa Barbara — Orphanage—St. Vincent Sisters, having plans prepared by Soule, Murphy & Hastings, archts., 1206 State St., 2 story, Goleta Farm. $160,000.

Cal., Santa Rosa—School—Santa Rosa Grammar School Dist., having plans prepared by W. H. Weeks, archt., 369 Pine St., San Francisco, grammar school. $260,000.

Cal., Stockton—City Hall—City having plans prepared by Davis-Heller-Pearce Co., archts., Weber & California Sts., J. Losekann, archt., Elks Bldg., and P. Sala, archt. Delta Bldg., for 6 or 7 story, Weber Ave. and America Sts. $600,000 bonds voted.

Cal., Stockton—School—City had plans prepared by F. E. Warner, archt., Belding Bldg., brick and concrete, Burkett Acres. $150,000.

Ont., Kingston—Schools—Bd. Educ. plans 1 public and 1 high school. $250,000. J. R. Stuart, inspector. Architect not selected.

Ont., Ottawa—Store—J. A. Larocque, 270 Dalhousie St., plans department store, Rideau St. $175,000. Architect not selected.

Ont., Toronto—Church—Bloor St. Baptist Church, Bloor and North Sts., having plans prepared by Wickson & Gregg, archts., Temple Bldg., 1 story, concrete, brick, steel and stone, Heath and Yonge Sts. W. A. Cameron, 592 Sherbourne Sts., pastor. $175,000. Noted Dec. 15.

Ont., Toronto—Exchange—Bell Telephone Co., 76 Adelaide St. W., having plans prepared by W. J. Carmichael, archt., c/o owner, 118 North Dominion St. W., Montreal, Que., brick and steel, Main St., here. $1,000,000.

Ont., Toronto—Store and Theatre—W. P. Moore, 223 High Park Ave., plans 2 story, 83 x 124 ft. concrete, brick and steel, Bloor St. $150,000. Architect not appoined.

BIDS DESIRED

Mass., Amherst—Laboratory—June 26, by Trustees Massachusetts Agricultural College, 2 story, 75 x 200 ft. brick and steel, plain foundation, on Campus. $200,000. Ritchie, Parsons & Taylor, 15 Ashburton Pl., Boston, archts. French & Hubbard, 210 South St., Boston, engrs. Noted Nov. 17.

N. Y., Haverstraw—School—July 5, by Bd. Educ. of Union Free School Dist., new school, Ramapo Rd. King & Campbell, 36 West 40th St., New York, archts.; adv. this issue.

N. Y., Albany—Restaurant and Office—June 26, by Dennison & Hirons, archts. and engrs., 475 5th Ave., New York, 6 story, brick, steel and stone, plain foundation, here, for Childs Co., 200 5th Ave., New York. Noted June 1.

N. Y., Corona (Flushing, P. O.)—School—June 26, by C. B. J. Snyder, supt. School Buildings of Bd. Educ. of New York, Flatbush Ave. and Concord St., Brooklyn, P. S. 19, 41st and 42nd Sts. from Lake St. to Roosevelt Ave., here. Noted Nov. 10.

N. Y., Long Island City—School—June 26, by C. B. J. Snyder, supt. School Buildings of Bd. Educ. of New York, Flatbush Ave. and Concord St., Brooklyn, P. S. 69, southerly side of Polk Ave. from 20th to 21st Sts., Jackson Heights, here.

N. Y., New York—Apartment—Eight Seventy Eight West End Corp., c/o R. Candela, archt. and engr., 200 West 72nd St., 15 story, brick, steel and stone, plain foundation, 874 West End Ave. Work will be done by separate contracts under supervision of architect.

N. Y., New York—Showroom and Office—Rouse & Goldstone, archts. and engrs., 512 5th Ave., will build (by separate contracts) brick, steel and stone, plain foundation, 27 West 60th St. $600,000. Owner's name withheld.

N. Y., New York—Store—July 5, by Starrett & Van Vleck, archts. and engrs., 8 West 40th St., 9 story, brick, steel and stone, concrete foundation, 5th Ave. and 50th St., for Saks & Co., Bway. and 33rd St. $2,000,000. Noted June 30, 1921.

N. Y., Utica—Hospital—June 26, by Faxton Hospital Assn., Sunset Ave., steel or concrete, Newell St. York & Sawyer, 50 East 41st St., New York, archts. and engrs. Noted Dec. 22.

N. J., Montclair—School—July 11, by Bd. Educ., 12 room brick, steel and stone addition, plain foundation. $150,000. Starrett & Van Vleck, 8 West 40th St., New York, archts. and engrs.

N. J., Westwood—School—July 30, by Bd. Educ., brick, steel and stone, plain foundation. $150,000. Rasmussen & Wayland, 252 West 46th St., New York, archts. and engs. Noted March 16.

Pa., Ambler—High School—July 1, by School Bd., c/o P. Maas, 2 story, 72 x 172 ft. brick, steel and stone, plain foundation. $200,000. S. S. Conover, 11 South 16th St., Phila., archt. Noted May 4.

Pa., Bridgeport—Hall—Boro. taking bids 3 story, 45 x 120 ft. brick, steel and stone, plain foundation. $150,000. C. S. Adams, 2038 Spruce St., Phila., archt.

Pa., Bryn Mawr—School—School Bd. receiving bids 2 story, 107 x 162 ft. brick, steel and stone, plain foundation, $200,000. R. B. White, Penna. Bldg., Phila., archt.

Pa., Johnstown—Theatre—Cambria Car & Fdry. Co., Johnstown, will build 2 story, 85 x 135 ft. brick, steel and stone, plain foundation, Franklin and Vine Sts. $500,000. Work will be done by separate contract under supervision of H. J. Krapp, archt., 114 East 16th St., New York.

This corrects report in June 8 issue which gave Shubert Theatre Co. as owner.

Pa., McKeesport—High School—July 10, by T. B. and L. Wolfe, archts., Century Bldg., Pittsburgh, 2 story, 90x275 ft. brick, steel and terra cotta, Tin Plate Hill. $300,000.

Pa. Phila.—Apartment—I. Demchick archt., 1703 Chestnut St., receiving bids 4 story, 100 x 130 ft. brick, steel and stone, plain foundation, 50th and Spruce Sts. $200,000. Owner's name withheld.

Pa., Phila.—Administration—June 29, by F. H. Caven, dir. pub. wks., 2 story, 39 x 139 ft. brick and steel, plain foundation, Byeberry Farms, for Dept. Pub. Health, City Hall. $600,000. P. H. Johnson, Presser Bldg., archt.

Pa., Phila.—Apartment—F. N. Greisler, archt., 1035 Walnut St., receiving bids 2 story, 112 x 128 ft. brick, steel and stone, plain foundation, 62nd and Chestnut Sts., for M. Benjamin, 5913 Chancellor St. $150,000.

Pa., Phila.—Home—June 29, by F. H. Caven, dir. pub. wks., 2 story, 38 x 93 ft. with two 37 x 88 ft. wings, brick and steel, plain foundation, 32nd and Pine Sts., for Dept. Pub. Health, City Hall. $250,000. P. H. Johnson, Presser Bldg., archt.

Pa., Somerset—Theatre—C. P. Pascoe, Grand Theatre, receiving bids 4 story, 66 x 180 ft. rein.-con., brick and steel, concrete pile foundation, Main St. $200,000.

Pa., State College—Theatre—Nittany Theatre Co., c/o M. Baum, State College, receiving bids 1 and 2 story, 68 x 115 ft., West College Ave. $150,000. H. S. Bair, State Theatre Bldg., Pittsburgh, archt. Noted April 6.

N. C., Charlotte—Hotel—July 5, by W. L. Stoddart, archt., 9 East 40th St., New York, 12 story, West Trade St., for Citizens Hotel Co., Charlotte. $1,000,000. Noted June 8.

O., Lorain—Clubhouse—July 1, by Slovenian Natl. Home Co., c/o W. L. Grills, 554 Bway., 3 story, 60 x 110 ft., brick, steel and concrete, Pearl St. $150,000. F. L. Clepper, 1127 Guardian Bldg., Cleveland, archt.

Mich., Lansing—College—July 5, by H. H. Halliday, secy. State Bd. of Agriculture, East Lansing, 3 story, 38 x 200 ft. with 39 x 78 ft. wing, brick, on campus.

Wis., Pulaski—School—June 29, by Bd. Educ., 2 story, 70 x 120 ft., brick, rein.-con. and steel, high and grade school. $150,000. Smith & Reynolds, Dempsey Bldg., Manitowoc, archts.

Ia., Ft. Madison—High School—July 10 by Bd. Educ., 3 story, 150 x 178 ft., rein.-con., brick, tile and stone. $265,000. Owen, Payson & Carswell, 505 Interstate Bldg., Kansas City, Mo., and Amer. State Bldg., Ft. Madison, archts. Noted June 23.

Ia., Rock Rapids—High School—July 17, by Bd. Educ., 3 story, 61 x 200 ft., rein.-con., brick, tile and stone. $150,000. Hughill & Blatherwick, Boyce-Greeley Bldg., Sioux Falls, S. D., archts.

Minn., Grand Rapids—High School—July 7, by H. J. Snider, clk. Bd. Educ., 3 story, 87 x 182 ft. rein.-con., steel and brick. $250,000. Holstead & Sullivan, 607 Palladio Bldg., Duluth, archts. and engrs. Noted April 6.

Minn., International Falls—High School—July 6, by F. E. Patterson, clk. Bd. Educ., 2 story, 100 x 250 ft. rein.-con. brick and tile. $250,000. Tyrie & Chapman, 1200 2nd Ave., South Minneapolis, archts.

Tex., San Antonio—Cathedral—June 29, by Building Com., Bexar Lodge of Perfection 9, Scottish Rite of Freemasonry, for new Scottish Rite Cathedral. R. H. Cameron, P. O. Box 1063, supervising archt.; adv. this issue.

Col., Colorado Springs—Auditorium—July 12, by C. E. Thomas and McLaren & Hetherington, archts., 322 Hagermann Bldg., brick and stone, Kiowa and Weber Sts. $325,000.

Ariz. Flagstaff—High School—July 7, by High School Trustees, for brick. $175,000. N. F. Marsh, 424 South Bway., Los Angeles, Cal., archt.

N. B., St. John—School—June 30, by A. G. Leavitt, secy. School Trustees, 2 story, 130 x 142 ft. brick, West St. John. $185,000. F. N. Brodie, St. John, archt. Noted May 11.

BIDS RECEIVED

O., Columbus—High Schools—E. L. McCune, clk. Bd. Educ., High and Town Sts., opened bids June 16, (1) Edward Orten High School, 2 story, 278 x 327 ft., Arcadia Ave., (2) Washington Gladden High School, 3 story, 200 x 400 ft., along Scioto River, brick, steel, concrete and stone, from R. H. Evans & Co., Ferris Bldg., (1) $863,900, (2) $849,430; D. W. McGrath & Sons, 255 East Broad St., (1) $666,600; Taylor & Lion, Zanesville, (1) $678,430; C. Shutrump & Sons, 407 Home Saving & Loan Bldg., Youngstown, (2) $881,177; Sutherland Building & Constr. Co., Syndicate Trust Bldg., St. Louis, Mo., (2) $888,804. Noted June 1.

O., Elyria—School—Bd. Educ., Roosevelt School, 2 story, from L. A. Burgett Co., Lorain, $183,138; J. Halpin, Elyria, $186,000.

Buildings (Continued)

O., Wickliffe—School—Bd. Educ., opened bids June 10, 2 story, brick, steel and concrete addition, plain foundation, from F. W. Mark Constr. Co., Leader News Bldg., Cleveland, $95,900; Hearn Constr. Co., 4501 Euclid Ave., Cleveland, $98,000. Noted May 25.

O., Wooster—High School—Bd. of Educ. 2 story, 62 x 168 ft., brick and steel addition, plain foundation, from Lang & Bogler, Wooster, $79,982; H. P. Moran Co., Terminal Bldg., Akron, $80,000. Noted June 1.

Wis., Manitowoc—High School—Bd. Educ. opened bids June 15, brick, tile and concrete, plain foundation, from T. Stark & Co., 130 Muskego Ave., Milwaukee, $379,000; Hoeppner-Bartlett Co., 414 Grand Ave., E., Eau Claire, $384,120; S. M. Siesel, 105 Wells St., Milwaukee, $417,015. Noted June 1.

CONTRACTS AWARDED

Mass., Boston—Store—W. F. Schrafft & Sons Corp., 160 Washington St., 5 story, 66 x 150 ft. brick, stone and steel, West St., to J. E. Nelson Co., 7 Water St. Archts. est., $250,000.

Mass., Waltham—High School—For 2 story, 106 x 174 ft. brick, with 59 x 75 ft. wing, South Side, to Walsh Bros., 150 Hampshire St., Boston, $264,910.

Conn., Hartford—Church—Our Lady of Sorrows Roman Catholic Church, 85 New Park Ave., 1 story, 70 x 170 ft. brick, steel and stone, plain foundation. New Park Ave., to McIntyre & Ahern, 50 John St., $250,000. Noted May 18.

Conn., Hartford—Dormitory—Hartford Seminary Foundation, 1507 Broad St., 3 story, 50 x 250 ft. brick and steel, Girard Ave. and Sherman St., to Bartlett—Brainerd Co., 252 Asylum St., $200,000. Noted July 14.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, P. S. 188, brick, steel and stone, Neptune Ave. between West 33rd and West 35th Sts., here, to P. J. Brennan & Son, 624 Madison Ave., New York, $568,824. Noted June 15.

N. Y., Cortlandt—Court House—Bd. Supervs. Cortland Co., 3 story, 40 x 100 ft. and 100 x 100 ft., courthouse, jail and sheriff's home, rein.-con., brick and steel, brick foundation, to A. E. Stevens Co., Springfield, Mass. Archts. est. $800,000. Noted May 11.

N. Y., Maspeth (Flushing P. O.)—School—Bd. Educ., 500 Park Ave., New York, addition to P. S. 72, Maspeth Ave. and Broad St., here, to Putnam Constr. Co., 303 5th Ave., New York, $219,800. Noted June 8.

N. Y., New York—Apartment—Boston Holding Co., c/o A. C. Blossom, archt. and engr., 680 5th Ave., 9 story, brick, steel and stone, plain foundation, East 49th St., by day labor.

N. Y., New York—Apartment—R. Podgin, c/o Schwartz & Gross, archts. and engrs., 347 5th Ave., 50 x 125 ft., brick, steel and stone, plain foundation, West 58th St., by day labor. $200,000.

N. Y., New York—Apartment Hotel—J. G. Siegel, Inc., c/o Sugarman & Hess, archts. and engrs., 16 East 43rd St., will build 15 story, 100 x 120 ft., brick, steel and stone, plain foundation, West 81st St., by day labor.

N. Y., New York—Physicians and Dentists—Senior & Allen, 505 5th Ave., 8 story, 50 x 80 ft., rein.-con., limestone, brick and steel, 20 East 53rd St., to Rugge Constr. Corp., 189 Bay 19th St., Brooklyn.

N. J., Trenton—Clubhouse—Knights of Columbus, 221 North Warren St., general contract 3 story, 80 x 200 ft., rein.-con., brick and steel, East State St., to C. J. Smith, 202 Academy St., $155,532. Noted March 30.

Pa., Beaver—Court House—Beaver Co., Court House, 2 story addition, to Kemena Lumber Co., Ambridge. Archts. est. $150,000.

Pa., Coraopolis—Bank—Ohio Valley Trust Co., 2 story, rein.-con. and steel, 5th Ave. and Mill Sts., to Foundaion Co., Fulton Bldg., Pittsburgh. Engrs. est. $150,000. Noted May 18.

Pa., McKees Rocks—School—J. H. Phillips, archt., Fulton Bldg., Pittsburgh, general contract, 3 story, 96 x 154 ft., brick, tile and terra cotta, May Ave., to Gilpatrick-Dawson Co., Wabash Bldg., Pittsburgh, for Bd. Educ. Engrs. est. $150,000. Noted June 1.

Pa., North Belle Vernon (Belle Vernon P. O.)—Bank—Peoples Natl. Bank, brick, steel and stone, plain foundation, to Kelly & Kelley, 12th St., Long Island City. Engrs. est. $150,000.

Pa., Phila.—Bank—East Falls Bank, East Falls (Phila. P. O.), 2 story, 27 x 100

WATER-WORKS IMPROVEMENTS—WELLSVILLE, OHIO

Following are lowest bids opened May 27, by T. R. Snowden, dir. Pub. Serv., for water-works improvements, Contr. No. 1, filtration plant, (A) Pittsburgh Constr. Co., Leasdale St., Pittsburgh, Pa.; (B) C. Masson & Co., Youngstown; (C) Dobson-Maines Co., Pittsburgh, Pa.; Contr. No. 2, pipe line, (A) Gangl Constr. Co., 737 2nd Natl. Bldg.; (B) F. R. Jones Co., Chicago Ill.; Contr. No. 3, storage reservoir, (A) Allison-Harrison Constr. Co., East Liverpool; (B) F. R. Jones Co., Chicago, Ill.; (C) Tatgenhorst & McLaughlin, East Liverpool. The unit bids were as follows:

Contract No. 1

	A	B	C
7,340 cu.yd. excavation and backfill	$1.75	$1.25	$1.35
30 cu.yd. rock excavation	3.00	12.00	6.00
700 cu.yd. embankments	1.00	.75	1.00
740 cu.yd. concrete, class A	20.00	20.00	22.00
20 cu.yd. concrete, class B	15.00	20.00	18.00
95,000 lbs. steel reinforcement	.04	.04½	.04½
Filtered water reservoir — 2 way (lump sum)	16,000.00	13,516.00	12,864.00
Filtered water reservoir — 3 way (lump sum)	15,000.00	13,316.00	12,764.00
Coagulation basins (lump sum)	16,200.00	14,942.00	14,561.00
10 bbls. additional cement	3.00	4.00	3.00
12.2 tons inside c.i. bell and spigot pipe	70.00	92.00	88.00
9.2 tons inside c.i. bell and spigot specials	150.00	170.00	154.00
3.9 tons inside flanged specials	150.00	240.00	198.00
56.2 tons outside bell and spigot pipe	70.00	91.00	78.00
7.5 tons outside bell and spigot specials	150.00	170.00	138.00
Hydraulic valves (lump sum)	2,700.00	1,550.00	3,065.00
Other gate valves (lump sum)	550.00	400.00	479.00
Plug valves (lump sum)	400.00	255.00	756.00
Sluice gates and check valves	3,000.00	2,690.00	4,153.00
Venturi meter (lump sum)	1,200.00	1,242.00	1,440.00
Float valve (lump sum)	850.00	1,070.00	933.00
1,500 lbs. miscellaneous cast iron	.08	.10	.15
1,000 lbs. miscellaneous wrought iron and steel	.08	.08	.15
Screens (lump sum)	25.00	100.00	18.00
125 lin.ft. pipe railing	2.00	2.50	1.50
Superstructure (lump sum)	9,000.00	12,420.00	21,829.00
Heating system (lump sum)	1,500.00	2,484.00	2,310.00
Plumbing (lump sum)	500.00	375.00	590.00
Wiring (lump sum)	900.00	994.00	1,400.00
4 Hartford systems (each)	1,150.00	250.00	908.00
12 troughs (each)	110.00	186.00	400.00
4 controllers (each)	940.00	1,081.00	784.00
4 operating tables (each)	600.00	1,000.00	488.00
Gauges (lump sum)	200.00	380.00	195.00
101 cu.yd. gravel—filter	7.50	6.00	13.20
60 cu.yd. sand—filter	7.50	10.00	15.18
Stirring machinery—coagulant (lump sum)	550.00	1,242.00	262.00
Miscellaneous pipe and fittings (lump sum)	300.00	621.00	335.00
Orifice boxes (lump sum)	180.00	792.00	200.00
Wash water tank (lump sum)	2,800.00	3,415.00	3,142.00
Wash water pumps (lump sum)	1,700.00	2,830.00	1,018.00
Vitrified pipe lines (lump sum)	1,000.00	3,105.00	1,185.00
Dry lime feed machines (lump sum)	600.00	250.00	670.00
4,840 sq.yd. grading and seeding	.03	.07	.09
2 dry feed machines (each)	600.00	260.00	650.00
Combined bid—all items except 7a and 46 with 2-way flat slab construction—filtered water reservoir	$114,481	$117,903	$128,345
Combined bid—all items except 7 and 46 with 3-way flat slab construction—filtered water reservoir	113,481	117,703	128,245
Filter equipment only—items 10-12, 15-20, 23, 31-40 and 44 inclusive	26,662	26,976	31,533
Exclusive of filter equipment—items, 1-9, 13-14, 21-22, 24-25, 27-30, 41-43 and 45 inclusive, with 2-way flat slab construction—filtered water reservoir	87,819	90,926	96,812
Exclusive of filter equipment, items 1-9, 13-14, 21-22, 24-25, 27-30, 41-43, and 45 inclusive, with 3-way flat slab construction—filtered water reservoir	86,819	90,726	96,712

Contract No. 2

	A	B
12,600 lin.ft. 20-in. c.i. pipe	$7.00	$6.50	$3.00*
12,600 lin.ft. 20-in. steel pipe	6.50	.....	.....
12,600 lin.ft. 18-in. steel pipe	6.50	.....	.....
2,700 lin.ft. 16-in. c.i. pipe, class A	6.00	5.00	2.40
350 lin.ft. 16-in. c.i. pipe, class B	6.25	5.40	2.40
1,650 lin.ft. 16-in. c.i. pipe, class C	6.75	5.40	2.40
4,700 lin.ft. 16-in. steel pipe	8.00	.....	.....
2,330 lin.ft. 20-in. c.i. pipe, rock tunnel	18.00	23.75	20.25
2,330 lin. ft. 20-in. steel pipe, rock tunnel	17.00	.....	.....
300 lin.ft. 20-in. c.i. pipe, earth tunnel	18.00	28.25	24.75
300 lin.ft. 20-in. steel pipe, earth tunnel	17.00	.....	.....
50 tons c.i. specials	140.00	135.00	35.00
4 manholes	400.00	350.00	.....
5 20-in. valves	700.00	355.00	215.00
5 18-in. valves	600.00	.....	.....
2 16-in. valves	500.00	275.00	125.00
1,450 lin.ft. pavement	2.00	3.50	.....
20 air valves (each)	60.00	5.00	2.50
7 blow-off valves (each)	700.00	315.00	125.00
5,000 cu.yd. rock excavation	2.00	3.00	.....
Extended totals c.i. pipe	$197,165	$202,868	.....
Extended totals 20 in. and 16 in. steel pipe	$196,310	.....	.....
Extended totals 18 in. and 16 in. steel pipe	$195,810	.....	.....
Extended totals exclusive of c.i. pipe, valves and specials	.....	$129,163	.....

* Materials furnished by city.

Contract No. 3

	A	B	C
Clearing and grubbing, (lump sum)	$3,500.00	$7,500.00	$8,000.00
55,000 cu.yd. excavation, class A	.50	.42	.50
44,500 cu.yd. excavation, class A	.50	.55	.53
1,800 cu.yd. excavation, class B	.85	.60	.70
500 cu.yd. excavation, class C	1.00	1.25	.90
7,600 cu.yd. excavation, class D	2.00	1.50	1.00
4,690 cu.yd. excavation, class E	1.00	.75	.75
55,000 cu.yd. embankment	.07	.08	.03
44,500 cu.yd. embankment	.07	.12	.03
4,800 sq.yd. seeding	.05	.10	.04
280 cu.yd. concrete work, class A	16.00	18.00	16.00
700 cu.yd. concrete work, class A	16.00	18.00	16.00
1,400 cu.yd. concrete work, class B	13.00	14.00	14.78
1,090 cu.yd. concrete work, class B	13.00	14.00	15.00
15,300 lbs. reinforcing steel	.04	.05	.06
43,400 lbs. reinforcing steel	.04	.05	.06
4,470 sq.yd. paving slopes	1.20	2.50	1.30

95 ton cast iron pipe	89.50	65.00	60.00
5.9 ton cast iron specials	158.50	135.00	126.50
Gate valves and sluice gates, (lump sum)	1,545.00	1,200.00	2,000.00
Miscellaneous metal work (lump sum)	100.00	100.00	100.00
Sheeting and shoring (lump sum)	30.00	40.00	40.00
Spillway bridge (lump sum)	1,785.00	2,500.00	4,500.00
Removing buildings (lump sum)	192.00	500.00	500.00
Moving bridge A to B (lump sum)	250.00	300.00	100.00
Moving bridge C to D (lump sum)	150.00	300.00	300.00
4,000 lin.ft. guard rail	.30	.30	.45
19,800 lin.ft. fence	.12	.23	.25
1,800 sq.yd. roadway surfacing	1.10	1.50	1.35
Drains (lump sum)	500.00	400.00	1,500.00
100 bbl. additional cement	2.60	3.00	2.56
700 cu.yd. rubble masonry	8.00	2.50	10.00
Extended totals without core wall	$111,072	$111,498	$113,993
Extended totals with core wall	$108,901	$118,438	$113,827

Buildings (Continued)

ft., brick and steel, plain foundation, Midvale and Ridge Aves., to A. R. Raff Co., 1635 Thompson St. Engrs. est. $150,000.

Pa., Phila.—Bank and Office—Girard Trust Co., Broad and Chestnut Sts., 7 story, brick, steel and stone, plain foundation, to G. A. Fuller Co., 949 Bway, New York. Noted March 30.

Pa., Phila.—Home—Masonic Home, c/o F. Kendricks, pres., City Hall, 3 story, 160 x 200 ft. brick, steel and stone, plain foundation, Broad and Ontario Sts., to A. R. Raff Constr. Co., 1635 Thompson St. Engrs. est. $500,000.

Pa., Phila.—Office—Heyman Bros., Weldner Bldg., 12 story, 82 x 145 ft., brick and steel, plain foundation, 16th and Walnut Sts., to Wark Co., 231 South Broad St. $500,000. Noted April 13.

Pa., Phila.—Sales, etc.—L. B. Rothchild, archt., 1225 Sansom St., 5 story, 55 x 150 ft. sales and service building, rein.-con., brick and stone, 1409-1411 North Broad St., to P. M. Sax, Penfield Bldg., for J. J. Greenberg Co., Morris Bldg., $125,000. Noted May 11.

W. Va., Follansbee—School—Bd. Educ., 2 story, 86 x 140 ft., to R. R. Kitchen & Co., Natl. Bank of West Virginia Bldg., Wheeling. Archts. est. $170,000. Noted April 6.

W. Va., Welch—Hotel—S. E. Carter, McDowell St., 5 story, 72 x 85 ft., McDowell St., to Green & Stowe, Welch. Archts. est. $200,000. Noted June 1.

N. C., Greensboro—School—Bd. Educ., school, brick, steel and stone, Cypress and Bessemer Aves., to Palmer-Spivey Co., Campbell Bldg., Augusta, Ga. Archts. est. $200,000. Noted May 18.

N. C., Reidsville—High School—Bd. Educ., 2 story, 50 x 150 ft., metal lumber and brick, to L. B. Flora, East Paxton St., Danville, Va., $120,456. Noted May 25.

O., Cambridge—High School—Bd. Educ. 2 story, brick and concrete, to Uncapher & Welch, Marion, $145,554. Noted May 25.

O., Clayton—School—W. H. Zizeet, clk. Bd. Educ., R. R. 3, Brookville, brick work for 3 story, rein.-con. and brick, plain foundation, here, to Smith Co., Clayton, $52,500. Noted May 11.

O., Cleveland — Commercial — Murphy Hotels Corp., c/o W. L. Murphy, Gillsy Hotel, 3 story, 75 x 115 ft., brick, steel and concrete, plain foundation, 925 Chester Ave., to Van Blarcom Co., Plymouth Bldg. Archts. est. $150,000. Noted June 1.

O., Trotwood—School—H. Jenkins, clk. Bd. Educ. Madison Twp. Consolidated Rural School Dist., 2 story, rein.-con. and brick, plain foundation, to R. McReynolds, 267 4th St. Arcade Dayton, $150,000. Noted May 11.

Ill., Edwardsville—Bank—Edwardsville Natl. Bank, 6 story, 46 x 84 ft., rein.-con. and brick, plain foundation, here, to Van Kammen & Overmeyer, 159 Main St., Kenosha, Wis., $150,000. Noted Feb. 9.

Ia., Charlton—High School—Bd. Educ., 3 story, 110 x 154 ft., rein.-con., brick and steel, general contract to C. W. Ennis, Grinnell, $160,000; plumbing and heating to C. W. Ensley, Charlton, $32,000. Noted May 25.

Ia., Des Moines—Office—Central Life Insurance Co., 800 United Bank Bldg., 10 story, 132 x 188 ft., rein.-con. and brick, 5th and Grand Aves., to A. H. Neumann & Co., 519 Hubbell Bldg., $500,000. Noted May 11.

Minn., Duluth — Apartment — Fleisher Constr. Co., 608 Builders Exch., Minneapolis, will build 4 story, 113 x 123 ft. brick and tile, 18th Ave. E. and 3rd St., by day labor. $200,000. D. R. Rose, 500 Builders Exch., Minneapolis, archt. and engr.

Minn., Glen Lake (Hopkins P. O.)—Sanatorium—Hennepin Co. Sanatorium Comn., c/o E. S. Mariatte, secy. Glen Lake Sanatorium, Hopkins, 6 story, 40 x 180 ft. infirmary and 3 story, 90 x 180 ft. dining hall, both rein.-con. brick and tile, also alterations in service building, to Pike & Cook, 416 South 5th St., Minneapolis, $400,000. Noted May 25.

Kan., Independence—Memorial—General contract for 2 story, 120 x 200 ft., rein.-con., brick and steel, plain foundation, to A. E. Todd & Son, Independence, $193,348; plumbing, heating and ventilating, to Sell-On Heating Co., Independence, $26,337.

Tex., Mexia—School—Bd. Educ., 2 story, 120 x 175 ft., brick, to Stone & Spoonts, Ft. Worth, $150,640. Noted June 8.

Cal., Los Angeles—Hotel—H. H. Christie, Hollywood, 8 story, 40 x 137 ft., rein.-con., Hollywood Blvd., to Lange & Bergstrom, Washington Bldg., $500,000.

Cal., Los Angeles—Theatre—B. & H. Circuit, c/o E. J. Borgmeyer, archt., 1003 California Bldg., 1 story, 110 x 126 ft., rein.-con., steel and terra cotta, Pico St. and Norton Ave., to L. Burck Constr. Co., 325 South Hill St., $347,500.

Cal., Napa—High School—Napa High School Dist., constructing rein.-con., general contract to Larsen-Siegrist, Claus Spreckels Bldg., San Francisco, $262,777. Noted May 25.

Cal., Sacramento—Hospital—Sutter Hospital Corp., constructing hospital, L St., near 29th St., to G. Wagner, 251 Kearny St., San Francisco. $400,000. Noted April 6.

Cal., San Luis Obispo—Hotel—Carpenter Hotel Co., 5 story, 86 x 160 ft., brick and concrete, to Rosene-Hunt-Sprager Co., 425 Pacific Finance Bldg., Los Angeles, $200,000. Noted Dec. 29.

Cal., San Mateo—Schools—San Mateo School Dist., constructing 2 frame schools, general contract to C. Pedersen, 118 10th Ave., $145,465. Noted June 8.

Ont., Toronto—Church and Parish Hall—St. Vincent de Paul Parish, Roncesvalles Ave., 1 and 2 story, concrete, brick and steel, Roncesvalles Ave., masonry contract, to H. N. Dancy & Son, 22 College St., carpentry, to T. J. Sullivan, 493 Sherbourne St.; electric work, to M. Nealon, 9 Glen Morris Ave. Engrs. total est. $160,000.

Federal Government Work

PROPOSED WORK

Mass., Nantucket—Radio Compass House—Spec. 4638—Bureau Yards & Docks, Navy Dept., Wash., D. C., rejected bids opened June 14 for radio compass house, at Naval Radio Station, Surfside. Noted June 8.

N. Y., Schenectady—Depot, etc.—Constr. Div., U. S. Army, c/o local Constructing Quartermaster, plans depot, repairs to boilers in central heating plant, etc., here.

D. C., Wash. — Repairs — Spec. 4623 — Bureau Yards & Docks, Navy Dept., rejected bids remodeling Marine Barracks at Navy Yard. Noted June 8.

Ga., Ft. McPherson—Alterations, etc.—Constr. Div., U. S. Army, c/o local Constructing Quartermaster, plans to alter and repair quarters, here.

Utah, Ft. Douglas—Storehouse, etc.—Constr. Div., U. S. Army, c/o local Constructing Quartermaster, plans storehouse and stable, here.

Cal., Presidio (Monterey P. O.)—Officers Quarters—Constr. Div., U. S. Army, c/o local Constructing Quartermaster, plans 9 sets officers' quarters, here.

Cal., Presidio (Monterey P. O.)—Stables, etc.—Constr. Div., U. S. Army, c/o local Constructing Quartermaster, plans stables and gun shed, here.

H. T., Pearl Harbor—Quaywalls, etc.—Spec. 4591—Bureau Yards & Docks, Navy Dept., Wash., D. C., soon takes bids 68 x 400 ft. and 68 x 178 ft. rein.-con. quaywalls, 80 x 364 ft. pier and 37 x 45 ft. bulkhead, etc.

BIDS DESIRED

N. Y., Madison Barracks—Stables, etc.—June 26, at Office Constructing Quartermaster, Madison Barracks, 3 stables and 3 gun sheds; adv. this issue.

Pa., Carlisle Barracks—Stables—June 27, at Office Constructing Quartermaster, Carlisle Barracks, for stables; adv. this issue.

Pa., Pittsburgh—Steel Hull—July 19, at Office U. S. Engineer, for 1 steel derrick boat hull; adv. this issue.

Md., Edgewood—Remodeling—June 28, at Office Constructing Quartermaster, Aberdeen Proving Ground, remodeling buildings, etc., at Arsenal, here; adv. this issue.

D. C., Wash.—Conduit—July 17, at Office U. S. Engineer, 250 Old Land Office Bldg., various sections water supply conduit; adv. this issue.

D. C., Wash.—Guard House—June 28, at Office Constructing Quartermaster, Room 2306, Munitions Bldg., for guard house; adv. this issue.

Ga., Augusta—Grilles—July 5, by Treas. Dept., Wash., D. C., wire grilles for U. S. Veterans Hospital, here. J. A. Wetmore, acting superv. archt.; adv. this issue.

La., New Orleans—Steel Ladder, etc.—July 17, at U. S. Engineer Office, 329 Custom House, steel ladder, pipe, gears, etc., for U. S. Dredge Gulfport; adv. this issue.

Ky., Louisville—Metal Work—July 17, at Office U. S. Engineer, P. O. Box 72, metal work for navigable pass for Dam 44, Ohio River; adv. this issue.

Ky., Louisville—Piling—July 18, at office U. S. Engineer, P. O. Box 72, steel sheet piling for Dam 44, Ohio River; adv. this issue.

O., Ashtabula Harbor—Rubble Mound—July 17, at Office U. S. Engineer, Buffalo, rubble mound extension of west breakwater, here; adv. this issue.

Ill., Chicago—Aerodrome—June 30, at Office Constructing Quartermaster, 1819 West Pershing Rd., for aerodrome; adv. this issue.

Ill., Rantoul—Boiler House, etc.—July 10 at Office Constructing Quartermaster, Chanute Field, boiler house and heating system; adv. this issue.

BIDS RECEIVED

Mass., Boston — Barracks, etc. — Treas. Dept., Wash., D. C., additional barracks, power house, mechanical equipment, etc., U. S. Quarantine Station, Gallops Island, here, from M. Seretto, 3 Tremont Row, $142,500; O. W. Lindberg & Co., South River, N. J., $159,000; A. MacDonald & Son, 79 Milk St., $161,616. Noted May 18.

N. Y., New York—Sub Post Office—U. S. Postmaster General, H. Work, opened bids May 17, constructing large office building, 818,966 sq.ft. floor space, to be used as Sub-Post Office building, to be leased by the Post Office Dept., for 20 years at approximate rental of $19,000,000, from J. Kulp & Co., Inc., 3158 West Madison St., Chicago, $1,175 per sq.ft., $19,245,695, alternate, $1.30 per sq.ft. $21,203,116; G. A. Fuller Co., 949 Bway., New York, $1.22 per sq.ft., $21,000,000; South Bay Realty Co., New York, $1.25 per sq.ft., $21,500,000; Parcel Post Building Co., New York, $1.275 per sq.ft. $20,883,633; Amer. Parcel Post Co., New York, $1.34 per sq.ft., $22,000,000; Penna. Parcel Post Bldg., Co., New York, $1.52 per sq.ft., $24,900,000. The award of contract depends on whether low bidder is able to acquire the site from the Pennsylvania R.R. which is holding same for $2,000,000.

Md., Annapolis—Seawall—Spec. 4621—Bureau Yards & Docks, Navy Dept., Wash., D. C., seawall at Naval Academy, here, (1) work complete, from McLean Contg. Co., 1415 Fidelity Bldg., Baltimore, (1) $11,950 (120 days) (2) add $480 deduct $290 (3) add $0.70; Empire Eng. Co., 216 East Lexington St., Baltimore, (1) $16,678 (120 days) (2) $565 (4 days) (3) $0.15; Dorsey & Miller, 420 Equitable Bldg., Baltimore, (1) $16,900 (120 days) (2) add $1,000 deduct $400 (3) add $0.40 deduct $0.60. Noted May 4.

Fla., Pensacola—Bulkhead, etc.—Spec. 4644—Bureau Yards & Docks, Navy Dept., Wash., D. C., bulkhead, runway and beach at Naval Air Station, here, from Doulut & Williams Co., 816 Howard Ave., New Orleans, La., $97,900 (240 days); C. H. Turner Co., 17½ Palafox St., $108,994. (240 days) A. Bentley & Sons Co., Atlantic Bank Bldg., Jacksonville, $153,567 (240 days). Noted June 1.

Cal., Mare Island—Radio Towers—Spec. 4637—Bureau Yards & Docks, Navy Dept., Wash., D. C., two 450 ft. radio towers, here, (1) work complete, from Brighton Structural Building Corp., 112 Cutler Bldg., Rochester, N. Y., (1) $72,383 (330 days) (2) deduct $6,500 (3) $0.75 (4) $81,966 (5) deduct $12,500 (6) add $0.085; Donald Zane Co., 233 Bway., New York, (1) $72,936 (240 days) (2) deduct $9,782 (3) $0.075 (4) $79,310 (240 days) (5) deduct $15,484 (6) add $0.0775; Amer. Bridge Co., Wilkins Bldg., Wash., D. C., (1) telegraphic bid $73,108 (240 days) (2) $7,446 (60 days) (3) $0.075 (4) $94,292 (240 days) (5) $28,630 (90 days) (6) $0.075.

Federal Government (Continued)

CONTRACTS AWARDED

N. Y., Brooklyn—Boiler—Spec. 4502—Bureau Yards & Docks, Navy Dept., Wash., D. C., boiler with mechanical stoker, at Naval Hospital, here, to Heine Boiler Co., 1120 Pennsylvania Bldg., Phila., Pa., $19,077 (150 days). Noted June 15. days). Noted June 15.

N. Y., Sayville—Heating Plant—Spec. 4578—Bureau Yards & Docks, Navy Dept., Wash. D. C., central heating plant and distributing system, at Naval Radio Station, here, to Almiral & Co., 1 Dominic St., New York, $10,181 (120 days). Noted June 1.

N. J., Lakehurst—Metal Work—Spec. 4605-A—Bureau Yards & Docks, Navy Dept., Wash., D. C., sheet metal work, screens and structural steel work, here, to Donald-Zane Co., 233 Bway., New York, $3,676 (60 days).

Va., Norfolk—Paving, etc.—Spec. 4657—Bureau Yards & Docks, Navy Dept., Wash., D. C., paving and road repairs at Navy Yard, here, to Tunstall-Johnson Co., 721 Citizens Bank Bldg., $2,700 (30 days). Noted June 8.

Fla., Pensacola—Extension—Spec. 4645—Bureau Yards & Docks, Navy Dept., Wash., D. C., extension to landing field at Naval Air Station, here, to C. H. Turner Co., 17½ Palafox St., $29,501 (150 days). Noted May 25.

Fla., Pensacola—Tank—Spec. 4633—Bureau Yards & Docks, Navy Dept., Wash., D. C., elevated steel water tank at Naval Air Station, here, to Chicago Bridge Co., 30 Church St., New York, $9,590 (120 days). Noted June 15.

Fla., Pensacola—Wells, etc.—Spec. 4626—Bureau Yards & Docks, Navy Dept., Wash., D. C., wells and pump house at Naval Air Station, here, to C. H. Turner Co., 17½ South Palafox St., $15,327 (120

La., New Orleans—Electrical Equipment—U. S. Engineer, 329 Customhouse, electrical equipment for dredge Gulfport, turbo generator, etc., to Westinghouse Electric & Manufacturing Co., Union Bldg., Pittsburg, Pa., $24,861, condenser, etc., to A. M. Lockett & Co., Ltd., 521 Barrone St., $4,214. Noted April 27.

Ill., Chicago—Dredging—U. S. Engineer Room 1201, 537 South Dearborn St., dredging in Calumet River, to Fitzsimons & Connell Dredge and Dock Co., 10 South La Salle St., $34,279. Noted May 18.

Minn., Duluth—Breakwater Repairs—U. S. Engineer, repairs to breakwater at Marquette Harbor, to J. L. Durocher Co., Detroit, Mich., $40,000.

Wash., North Head—Operating Building—Spec. 4641—Bureau Yards & Docks, Navy Dept., Wash., D. C., operating building at U. S. Radio Station, here, to Miller Bros., 221 Burwell Ave., Bremerton, $8,490 (85 days). Noted May 25.

Ore., Astoria—Radio Tower—Spec. 4656—Bureau Yards & Docks, Navy Dept., Wash., D. C., 300 ft. steel radio tower at U. S. Radio Station, here, to Miller Bros., 221 Burwell Ave., Bremerton, Wash., $4,980 (60 days).

Cal., Presidio (San Francisco P. O.)—Storehouse—Constructing Quartermaster, 1 story, 46x140 ft. rein.-con. storehouse at Letterman General Hospital, here, to Union Constr. Co., 351 California St., San Francisco, $19,438. Noted May 25.

Cal., Mare Island—Quarters—Spec. 4632—Bureau Yards & Docks, Navy Dept., Wash., D. C., quarters at Naval high power radio station, here, to Union Constr. Co., 351 California St., San Francisco, $9,850 (80 days). Noted June 15.

Cal., San Diego—Bulkhead Extension—Spec. 4651—Bureau Yards & Docks, Navy Dept., Wash., D. C., concrete bulkhead at Naval Base, here, to Ross Contg. Co., Van Nuys Hotel, Los Angeles, $69,644 (120 days). Noted June 1.

Cal., San Diego—Dolphins, etc.—Spec. 4624—Bureau Yards & Docks, Navy Dept., Wash., D. C., mooring dolphins and timber pier at Naval Base, here, to F. W. Steffgen, 428 Timken Bldg., $66,015 (160 days). Noted June 1.

Cal., San Diego—Hangars, etc.—Spec. 4581—Bureau Yards & Docks, Navy Dept., Wash., D. C., hangars, erection of shop, oil and paint storehouse, concrete road, water lines and gasoline tanks, pumps, and distribution system at Naval Base, here, to G. E. Eng. Co., 449 West 42nd St., New York, $243,500 (240 days). Noted June 1.

Cal., San Diego—Platform—Spec. 4646—Bureau Yards & Docks, Navy Dept., Wash., D. C., experimental landing platform for ship-planes at Naval Base, here, to F. W. Steffgen, 428 Timken Bldg., $22,877 (120 days). Noted May 25.

P. R., San Juan—Radio Quarters—Spec. 4634—Bureau Yards & Docks, Navy Dept., Wash., D. C., radio quarters and remodeling buildings at Naval Radio Station, here, to F. Benitez Rexach, P. O. Box 319, $17,623 (150 days). Noted May 25.

Miscellaneous

PROPOSED WORK

Dredging Plant—Phila. Pa.—Dept. Wharves, Chestnut St. Pier, soon takes bids furnishing units for dredging plant. $500,000. G. Sproule, dir.

Traffic Signals—Phila., Pa.—City, c/o Dept. Electricity, soon takes bids automatic signals for street traffic. $25,000. J. F. McLaughlin, 610 City Hall, engr.

Transmission Line—Brookfield Center, O.—See "Industrial Works."

Street Sweeper—Steubenville, O.—City plans to purchase motor street sweeper. R. P. Price, dir. Pub. Safety.

Car Barns, etc.—Oshkosh, Wis.—Eastern Wisconsin Electric Co., 58 Main St., plans car barns, brick and rein.-con., plain foundation, incl. repair pits, railway spurs, switches, etc. $150,000. B. W. Arnold, Mgr. Architect not selected.

Wells—Casper, Wyo.—Producers & Refiners Corp., Casper, plans extensive drilling operations on Ferris Dome, near here, incl. 6 wells 1,400-1,800 ft. deep. R. E. Wertz, genl. mgr.

Pipe Line—Bristow, Okla.—Sinclair Pipe Line Co., Sinclair Bldg., Tulsa, plans 10 mi. 4 in. pipe line from company's Catfish Sta. near here to middle of Twp. 14-8. $25,000.

Steel Pipe and Meters—Fair Oaks, Cal.—Fair Oaks Irrigation Dist., had plans prepared 28,000 lin.ft. 6-24 in. riveted steel pipe, $30,000; meters for distribution system, $20,000. S. E. Kieffer, 57 Post St., San Francisco, engr.

Spillway Gates—Turlock, Cal.—Turlock and Modesto Irrigation Dists, had specifications made for hydraulically operated spillway gates for Don Pedro Dam Project. $62,000. R. V. Meikle, ch. engr. for Turlock Dist. P. Jones, ch. engr. for Modesto Dist.

Tunnel—Montreal, Que.—See "Streets and Roads."

Electric Lighting System—Charing Cross, Ont.—Raleigh Twp. plans electric lighting and power distribution system. $30,000. A. Lawlor, 190 University Ave., Toronto, engr.

Electric Lighting System—New Sarum, Ont.—Yarmouth Twp. having plans prepared 6 mi. electric light and power distribution system from here to St. Thomas. $27,000. A. Caughell, Hydro Offices, St. Thomas, engr.

Ice Arena—Niagara Falls, Ont.—Niagara Falls Arena Co., Ltd., Main St., plans concrete, brick and steel arena and artificial ice plant. $50,000.

Electric Light and Power System—Tara, Ont.—Derby Twp. plans electric light and power distribution system. $35,000. A. Purcell, 190 University Ave., Toronto, engr.

Transmission Line—Thessalon, Ont.—See "Industrial Works."

BIDS DESIRED

Pier Sheds and Grain Conveyor Gallery—Portland, Me.—July 18, at office Dirs. Port of Portland, 67 Commercial St., constructing north and south sheds and grain conveyor gallery, at and near State Pier; adv. this issue.

Ramp, etc.—Brooklyn, N. Y.—June 30, by J. H. Delaney, comr. Docks, Pier "A" North River, New York, building ramp and dumping board at foot of West 23rd St., Coney Island Creek and completing dredging here, Contr. 1734.

Concrete Mixer, etc.—Buffalo, N. Y.—Seneca Iron & Steel Co., Erie County Bank Bldg., taking bids concrete mixer, 3-5 ft. capacity, large loading machine and several dump wagons. $1,000.

Miscellaneous Construction, etc.—New York, N. Y.—June 29, by Transit Comn., 49 Lafayette St., miscellaneous construction and station finish for Rapid Transit Railroads in Boros of Manhattan, Bronx, Brooklyn and Queens, Agreement "BV." G. McAneny, chn.

Elevated Railway Equipment, etc.—Phila., Pa.—June 27, by W. S. Twining, dir. Dept. Transit, 1112 Chestnut St., for Contr. 661, comprising 28 items of miscellaneous work necessary to complete construction and equipment of Frankford Elevated Ry. and Bustleton surface lines, incl. connection to the Market St. subway incline at Front and Arch Sts. $300,000. H. H. Quimby, 1112 Chestnut St., engr.

Heating, Ventilating, etc.—Urbana, Ill.—July 17, at Office J. M. White, superv. archt., 256 Adminstration Bldg., heating, ventilating, plumbing and electric work in new agricultural building at University of Illinois, here; adv. this issue.

Granite Blocks—Montreal, Ont.—June 27, at office Executive Com., City Hall, 644,000 granite blocks. L. O. Pion, purch. agt.

Breakwater—Port Colborne, Ont.—July 4, by R. C. Desrochers, secy. Dept. Pub. Wks., Ottawa, repairing concrete superstructure at 3 points on Eastern and 2 points on Western breakwater. $75,000. K. M. Cameron, Dept. Pub. Wks., Ottawa, engr.

BIDS RECEIVED

Asphaltic Cement—St. George, N. Y.—M. J. Cahill, pres. Richmond Boro, opened bids June 14, Alternate A, furnishing and delivering 400 ton Natural Lake asphaltic cement, Alternate B, 400 ton oil asphaltic cement at asphalt plant of Bureau of Highways, Tompkins Ave., Clifton, from J. E. Donovan, 2205 Richmond Terrace, Port Richmond, Alternate A, $31 per ton, Alternate B, $20.10; J. Johnson Sons, 455 Bway., West New Brighton, Alternate A, $32; Standard Oil Co. of New York, 26 Bway., New York, Alternate B, $18.75; Warner Quinlan Co., 79 Wall St., New York, Alternate B, $21. Noted June 8.

Paving Materials—St. Paul, Minn.—Opened bids June 5, paving materials for paving (1) east and west alley in Block 6, Terrace Park addition, (a) 336 bbl. portland cement, (b) 196 cu.yd. crushed rock, (c) 151 cu.yd. screened sand; (2) alley in Union Park and Hinkels Amendment and Hinkels Third Amendment, (a) 177 bbl. portland cement, (b) 103 cu.yd. crushed rock, (c) 80 cu.yd. screened sand; (3) alley in Block 29, Summit Park Addition, (a) 227 bbl. portland cement, (b) 161 cu.yd. crushed rock, (c) 125 cu.yd. screened sand, from Corning Donohue Brick Co., 613 Ryan Bldg., (1a), (2a) and (3a) $2.60 per bbl., delivered; Stiefel Material Co., 501 Concord St., (1a), (2a) and (3a) $2.60, (1b) and (3b) $2.85, (2b) $3.05, (1c) and (3c) $1.60, (2c) $1.80; St. Paul Builders Material Co., 605 Ryan Annex, (1a) and (2a) $2.60; J. L. Shiely Co., 305 Dakota Bldg., (1b), (2b) and (3b) $2.75, (1c), (2c) and (3c) $1.50; Speakes Co., Griggs and Fuller Sts., (3a) $2.60. Noted June 1.

CONTRACTS AWARDED

Foundation for Gas Holder—Boston, Mass.—Boston Consolidated Gas Co., 149 Tremont St., rein.-con. foundation for gas holder, 273 in. diam. and 36 ft. high, to W. M. Bailey Co., 88 Broad St. Engrs. est. $125,000.

Stadium—Boston, Mass.—Boston Coliseum Trust, c/o Andrews, Tower & Lavalle, engrs., 21 East 40th St., New York, 450 x 750 ft. rein.-con., to Simpson Bros. Corp., 77 Summer St. $750,000.

Retaining Wall—Stamford, Conn.—See "Dams."

Concrete Retaining Wall—Wethersfield, Conn.—State Prison Comn., Hartford, construction of and excavation for prison wall, 1,000 ft. long and from 20 to 35 ft. high, to A. W. Byrne & Son, 79 Linnmore St. $35,000.

Dumping Scows—New York, N. Y.—Bd. Purch., Municipal Bldg., building and delivering 12 side dumping scows, to W. H. Geoghan, 147 Remsen St., Brooklyn, $491,904. Noted June 8.

Heating Pipes—Hibbing, Minn.—Installing 1,800 ft. 12 in. steam heating mains from central system, to F. E. Christoferson Co., 409 East Superior St., Duluth, $27,500.

Crushed Limestone, Asphalt Filler, etc.—St. Paul, Minn.—For 950 cu.yd. crushed limestone for street repairs, to J. L. Shiely Co., 305 Dakota Bldg., $2.25 to $2.75 per cu.yd.; asphalt filler, to Minnesota Road Equipment Co., 427 Plymouth Bldg., Minneapolis, $621; paving blocks, to Speakes Co., Griggs and Fuller Sts., $3,656. Noted May 25.

Gas Line—Wister, Okla.—Constructing gas pipe line from Poteau to here, to J. S. Terru Constr. Co., Wister, $21,500. Noted May 4.

Levee and Dyke—Anaheim, Cal.—Permanent Flood Control Com., constructing levee and pile and plank wire dyke, 7,850 ft. long, along Santa Ana River, 43,568 cu.yd. embankment, 9,180 ft. 50 in. woven wire fencing, one thousand and sixty five 18 ft. piles, etc., to T. E. Hill & Co., Washington Bldg., Los Angeles, $33,540.

Pipe—Santa Cruz, Cal.—For 1,000 ft. 14 in. and 5,000 ft. 10 in. pipe, Mathewson Joint, to Crane Co., 2nd and Brannan Sts., San Francisco, $264 and $154 per 100 ft. respectively.

Wharf—Midland, Ont.—Aberdeen Elevator Co., Midland, concrete wharf with 10 rein.-con. cribs and deck, to J. H. Tromanhauser, 69 Adelaide St., E., Toronto, $60,000.

Dock—Saulte Ste. Marie, Ont.—A. B. McLean & Sons, Saulte Ste. Marie, plans dock for unloading sand and gravel. $60,000. Work will be done by day labor.